21st STATE LEVEL COMPETITION - 2022

ORGD. BY: THE UNITED DEVELOPMENT ASSN. (UDA), KHANGABOK H.Q. KHANGABOK, THOUBAL (MANIPUR)

Regd. No.: 3/SR/TH/1999

Class-III (Science)

F.M.: 100 Time: 1hrs.

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Instru		

* There are 50 questions with four alternatives of which one is the correct/most appropriate answer. Each question carry 2 marks.

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l.	In your joint family, you live with your grandfather, uncle, uncle's wife, their sons & your parents.									
	Who is the oldest in your famil	y ?								
	(a) Father	(b) Mother	(c)	Uncle	(d) Grandfather					
2.	My father is the son of my									
	(a) uncle	(b) unty	(c)	grandfather	(d) none					
3.	The plants which are called shr	ubs are								
	(a) same to the trees in size	(b) smaller than th	e trees							
	(c) greater than the trees	(d) none								
1.	The plant group called creeper	s, mostly								
	(a) grow with a support	(b) grow undergro	ound							
	(c) grow along the ground	(d) none								
5.	Plants suck up water and miner	rals from the								
	(a) rain	(b) soil	(c)	air	(d) none					
) .	Which one of the following is t	he oil giving plant?								
	(a) pea	(b) mustard	(c)	cabbage	(d) none					
7.	Which one of the following is a	not a cereal?								
	(a) wheat	(b) maize	(c)	rice	(d) none					
3.	In a leaf, mid-rib is									
	(a) not a main vein	(b) a main vein	(c)	a veinlet	(d) none					
).	The part of a plant called the fo	ood factory is,								
	(a) root	(b) stem	(c)	leaves	(d) none					
10.	Leaves are green in colour due	to the presence of								
	(a) sunlight	(b) chlorophyll	(c)	starch	(d) none					
11.	We know that, plants									
	(a) take their food from anima	als (b) manufacture the	neir owi	n food						
	(c) absorb their food from ma	n (d) none								
12.	During the photosynthesis, plan	nts need,								
	(a) water, air and oil	(b) water, sunlight	and cla	ay						
	(c) water, air and sunlight	(d) none								

13.	The root which we eat is,						
	(a) potato	(b)	ginger	(c)	carrot	(d)	none
14.	Which one of the flowing is not a	roc	ot?				
	(a) carrot	(b)	potato	(c)	raddish	(d)	none
15.	Birds can fly with the help of,						
	(a) fins	(b)	legs	(c)	wings	(d)	none
16.	Choose a wrong statement						
	(a) fishes can swim	(b)	ants can crawl				
	(c) Mosquitoes can walk fast	(d)	none				
17.	Choose the most appropriate one	•					
	(a) fishes use their eyes to swim	l		(b)	fishes use their he	ad to	swim
	(c) fishes use their fins to swim			(d)	none		
18.	Choose the appropriate statemen	t					
	(a) birds can walk fast	(b)	ants can crawl	(c)	fish can fly	(d)	none
19.	Ducks have						
	(a) round and pointed beak			(b)	broad and flat bea	ak	
	(c) strong and curved beak			(d)	none		
20.	Which is the correct statement?						
	(a) Chess is a four player game				Chess is a two play	yer ga	ame
	(c) Chess is a three player game			(d)	none		
21.	Who is the present Education Mi		•				
	(a) Biren	(b)	Basanta	(c)	Bishworjit	(d)	none
22.	In a society, we should respect						
	(a) only Doctors	` /	Engineers	. •			
22	(c) only Lawyers		All types of occu	patio	n		
23.	When a baby is six months old, s						
	(a) vegetable only	` /	cereals and fruits				
2.4	(c) meat and vegetable	` /	none				
24.	Which of the following is a herbi			()	1	(1)	
25	(a) vulture	(b)	bear	(c)	deer	(d)	none
25.	Carnivores have	1.		(1.)	1		1 4 - 41
	(a) short, blunt and pointed teet	n			long, sharp and p	omie	a teetn
26	(c) long, blunt and flat teeth		a taath amana tha	(d)	none		
26.	Choose the animal, which is not he (a) Horse		g teem among me Goat		•	(4)	nono
27.	Which one of the following do no	\ /		(6)	Lizard	(d)	none
21.	(a) bee		butterfly	(a)	frog	(d)	nono
28.	The important materials used to 1	` /	•		_	` /	none t Loktak
20.	Lake are	man	c the unusual nous	c at 1	noating phanial to	una a	i Loriar
	(a) clay and bamboo	(h)	wood and reeds				
	(c) grass, reeds and bamboo	1	none				
29.	Which animal of the following ne	` /					
_,.	(a) cow		goat	(c)	camel	(d)	none
30.	The hump on the back of a came	` /	•	(5)		(4)	110110
20.	(a) food only		food and water	(c)	water only	(d)	none
31.	The thick stems of a cactus plant	` /		(5)	acci omj	(4)	110110
	(a) water		oil	(c)	air	(d)	none
		(-)		(-)		(")	

32.	Collection of rain water for fut	ure us	se is called,				
	(a) water cultivation	(b)	rain water storage	e			
	(c) rain water harvesting	(d)	all the above				
33.	Which of the following is the fu	nctio	n of ear?				
	(a) taste	(b)	hear	(c)	speak	(d)	none
34.	Which of the following is the n	ost s	ensitive organ?		-		
	(a) hand	(b)	leg	(c)	nose	(d)	none
35.	For washing clothes, what is the	he bes	st water?				
	(a) pond water	(b)	lake water				
	(c) rain water	(d)	underground wat	er			
36.	All the time, we						
	(a) eat	(b)	drink	(c)	breathe	(d)	work
37.	Nest is the home of						
	(a) Tiger	(b)	Lion	(c)	Zebra	(d)	None
38.	Our house saves us from						
	(a) heat	(b)	rain	(c)	cold	(d)	all the above
39.	Which of the following animals	is odd	1?				
	(a) Cow	(b)	Cat	(c)	Horse	(d)	Buffalo
40.	Sun rises from the						
	(a) South	(b)	North	(c)	West	(d)	none
41.	Which of the following is the bi	ggest	?				
	(a) Earth		Moon	(c)	Sun	(d)	Satellite
42.	Water content of human body i	S					
	(a) 30%	(b)	50%	(c)	70%	(d)	none
43.	Living beings need,						
	(a) water only	(b)	food only				
	(c) both water and food	(d)	none				
44.	We should wash our hands						
	(a) only before meals	(b)	only after meals				
	(c) before and after meals	(d)	none				
45.	We should obey						
	(a) our teachers only	(b)	our parents only				
	(c) our brothers & sisters	(d)	all the above				
46.	Plants absorb water directly from	m					
	(a) ponds	(b)	rivers	(c)	lakes	(d)	none
47.	Children learn from						
	(a) Teacher	(b)	Mother	(c)	Father	(d)	all the above
48.	Plastic bags should not be throw	vn in					
	(a) drains	(b)	fields	(c)	ponds	(d)	all the above
49.	We should brush our teeth,						
	(a) once in a day	(b)	twice in a day				
	(c) thrice in a day	(d)	none				
50.	Musical chairs is a game played	by					
	(a) only two persons	(b)	only one person				
	(c) a group of people	(d)	none				

Regd. No.: 3/SR/TH/1999

Class-IV (Science)

F.M.: 100 Time: 1hrs.

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1.	The growing period of a child inside the mother's body before being born is,									
	(a) 10 months	(b) 12 months	(c)	9 months	(d)	none				
2.	Maldives is									
	(a) a river	(b) an ocean	(c)	an island	(d)	none				
3.	In Manipur, Patriot's Day is obse	erved on								
	(a) 14 th Nov.	(b) 15 th Aug.	(c)	13th Aug.	(d)	none				
4.	Which one of the following is an	outdoor game?								
	(a) Chess	(b) Ludo	(c)	Kabadi	(d)	none				
5.	Which one of the following is no	t an outdoor game?								
	(a) Cricket	(b) Hockey	(c)	Football	(d)	none				
6.	Which one of the following is no	t a fighting game?								
	(a) Judo	(b) Boxing	(c)	Kung-fu	(d)	none				
7.	The person who sews, and repair	r our clothes is called								
	(a) stitcher	(b) tailor	(c)	clother	(d)	none				
8.	The occupation of tailoring can be done by									
	(a) man only	(b) woman only	(c)	both man & won	nan	(d)none				
9.	A person who sells medicines is known as									
	(a) Doctor	(b) Nurse	(c)	Pharmacist	(d)	none				
10.	A person who sells meat is called	1								
	(a) Cutterr	(b) butcher	(c)	seller	(d)	none				
11.	At the time of invention aeropla	ne could carry only								
	(a) one person	(b) two persons	(c)	three persons	(d)	none				
12.	Aeroplane was invented on									
	(a) 15 th Dec. 1903	(b) 17 th Dec. 1903	(c)	10 th Dec. 1905	(d)	none				

Class-IV (Science)

13.	Wilburt Wright was born	on					
	(a) 30 th April, 1867	(b)	16 th April, 1867	(c)	15 th April, 1867	(d)	none
14.	A person who repair and	makes shoe	es is called				
	(a) Tailor	(b)	Butcher	(c)	Cobbler	(d)	none
15.	Female elephants move v	vith their ca	lves in herds of				
	(a) 10 to 20	(b)	20 to 30	(c)	15 to 25	(d)	none
16.	The living groups of lion	n is called					
	(a) herds	(b)) prides	(c)	bunches	(d)	none
17.	The group name of fishe	s is called					
	(a) herd	(b)) troop	(c)	shoal	(d)	none
18.	The group name of monl	keys is called	d				
	(a) pride	(b)) troop	(c)	herd	(d)	none
19.	Termites live in their hou	se called					
	(a) terminology	(b)	termit house	(c)	termitary	(d)	none
20.	An elephant uses its ear	to					
	(a) protect from enemy	(b)	keep the body co	ool			
	(c) save from wind	(d)) none				
21.	Bats use their big ears to)					
	(a) find prey	(b)	escape from energy	mies			
	(c) hearing	(d)	all the above				
22.	Ears of birds are so sma	ll, but they a	are				
	(a) powerless	(b)) powerful	(c)	very weak	(d)	none
23.	Which one of the follows	ng do not p	ossess external ear	r ?			
	(a) Bears	(b)	Cats	(c)	Frogs	(d)	none
24.	The animal which do not	have body	hair is				
	(a) Cows	(b)) Cats	(c)	Snakes	(d)	none
25.	Those animals which do	not lay eggs	s but give birth to	young	ones are called		
	(a) amlae	(b)	producers	(c)	mammals	(d)	none
26.	Camels have						
	(a) thick hairs	(b)	little hairs	(c)	long hairs	(d)	none
27.	In a hive, bees live toget	her in about					
	(a) 500 to 80,000	(b)	500 to 8000	(c)	50,000 to 80,000	(d)	none
28.	Bee produces a chemical	known as					
	(a) phenols	(b)) phenylls	(c)	pheromones	(d)	none
29.	During the time of famin	e, people ea	t a root called				
	(a) chessnut	(b)	cassava	(c)	eating root	(d)	none
30.	The root which we eat is						
	(a) turnip	(b)) potato	(c)	ginger	(d)	none
31.	The calyx is the outermo	st whorl co	mposed of				
	(a) petals	(b)	stamens	(c)	sepals	(d)	none

32.	The ovules of a flower are present	nt									
	(a) inside the anther	(b)	inside the ovary	(c)	outside the ovary	(d)	none				
33.	The stigma of a flower is present	on t	he								
	(a) stamens	(b)	petals	(c)	carpels	(d)	none				
34.	Which one of the following is not	t an	agent of pollination	n ?							
	(a) wind	(b)	bird	(c)	insects	(d)	none				
35.	The sugary liquid produced by plants to attract the bees is called										
	(a) honey	(b)	aroma	(c)	nectar	(d)	none				
36.	The branch of Science which dea	ls w	ith processing and	prod	uction of flower is	knov	vn as				
	(a) agriculture	(b)	floriculture	(c)	pisciculture	(d)	none				
37.	Cutting down of trees in large sca	ale is	s known as								
	(a) afforestation	(b)	deforestation	(c)	environmentation	(d)	none				
38.	The fruits of pine are										
	(a) edible	(b)	not edible	(c)	sour	(d)	none				
39.	Dairy workers gather milk and pr	rodu	ce								
	(a) sugar	(b)	glucose	(c)	cheese	(d)	none				
40.	Milk teeth begin to fall as a child	atta	ins								
	(a) 12 yrs.	(b)	10 yrs.	(c)	6 yrs.	(d)	none				
41.	An adult (person) has										
	(a) 3 types of teeth	(b)	2 types of teeth	(c)	4 types of teeth	(d)	none				
42.	At the age of three children have	e									
	(a) 15 teeth	(b)	20 teeth	(c)	25 teeth	(d)	none				
43.	The strong, sharp claws of eagles	s are	known as,								
	(a) colons	(b)	Talons	(c)	Nanons	(d)	none				
44.	The number of toes present in a b	oird i	is								
	(a) 2	(b)		(c)	4	(d)	5				
45.	Varanasi is situated on the bank	of tl	he								
	(a) Godavari river	(b)	Tapti river	(c)	Ganga river	(d)	none				
46.	Nambul river finally fall into the										
	(a) Waithou lake		pumland lake		Loktak lake	(d)	none				
47.	Which one of the following does	not	make nest of its ov	vn?							
	(a) crow	(b)	kite	(c)	cuckoo	(d)	none				
48.	Cows live in										
	(a) coop	(b)	dens	(c)	shed	(d)	none				
49.	Spiders make their										
	(a) nest	(b)	web	(c)	net	(d)	none				
50.	Rats live safely in the										
	(a) nest	(b)	gap of wood	(c)	burrows	(d)	none				

Regd. No. : 3/SR/TH/1999

Class-V (Science)

F.M.: 100 Time: 1hrs.

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1.	People who keep on moving for their livelihood are called									
	(a) Roamer	(b)	Shelter	(c)	Nomads	(d)	none			
2.	The partition of India into India	and I	Pakistan took plac	e in						
	(a) 1987	(b)	1967	(c)	1947	(d)	none			
3.	Sagol Kangjei is played with									
	(a) 10 players in each side	(b)	12 players in eac	h sid	e					
	(c) 7 players in each side	(d)	none							
4.	Which one of the following is the indigenous game of India?									
	(a) Table Tennis	(b)	Judo	(c)	Hockey	(d)	none			
5.	The game "Judo" is originated f	rom								
	(a) China	(b)	Japan	(c)	Korea	(d)	none			
6.	The martial art named "Karate"	origi	nated from							
	(a) Manipur	(b)	China	(c)	India	(d)	none			
7.	The traditional game "Hiyang Tannaba" of Manipur is held in the month of									
	(a) December	(b)	March	(c)	October	(d)	none			
8.	"Kang" is an indoor game played									
	(a) on a tree	(b)	on a mud floor	(c)	on a cemented flo	or	(d) none			
9.	Manipuri style of wrestling is pla	yed	between							
	(a) one male & one lady	(b)	two male rivals	(c)	two lady rivals	(d)	none			
10.	All kinds 0f labour is regarded a	as di	gnified in the prese	ent ag	ge, in					
	(a) India only	(b)	America only							
	(c) every progressive countries	(d)	none							

11.	Insects have								
	(a) one type of eyes	(b)	two types of eyes	(c)	three types of eye	s	(d) n	one	
12.	Animals find their food with the	help	of their						
	(a) eyes only	(b)	sense organs	(c)	nose only	(d)	none		
13.	Simple eyes of insects can dete	ect ch	anges of						
	(a) sound	(b)	smell	(c)	day & night	(d)	none		
14.	Compound eyes of insects are m	nade	up of						
	(a) two simple eyes	(b)	three simple eyes						
	(c) thousands of small eyes		(d)	non	e				
15.	Eagles can see four times as far	as							
	(a) we can	(b)	a dog can	(c)	a snake can	(d)	none		
16.	Water can be lifted from bore-ho	oles ł	by sinking tubes int	o the	e earth, such devic	e is ca	alled		
	(a) earthwells	(b)	tubewells	(c)	deepwells	(d)	none		
17.	Spiders have good sense of								
	(a) sight	(b)	hearing	(c)	smell	(d)	none		
18.	Sharks have good sense of								
	(a) hearing	(b)	sight	(c)	smell	(d)	none		
19.	Squirrels have great sense of								
	(a) hearing only	(b)	smell only	(c)	smell and hearing	(d) r	none		
20.	Earthworms help farmers by ma	king	the soil						
	(a) damage	(b)	fertile	(c)	hardy	(d)	none		
21.	The process of treating skins of	dead	animals to make t	hem	more strong is call-	ed			
	(a) screening	(b)	foaming	(c)	tanning	(d)	none		
22.	Pears are obtained from the sea	anin	nals called						
	(a) Corals	(b)	Oyster	(c)	Pieses	(d)	none		
23.	People who illegally hunt birds or animals are called								
	(a) hunter	(b)	killer	(c)	poacher	(d)	none		
24.	The state animal of Manipur is								
	(a) Nongin	(b)	Sangai	(c)	Parrot	(d)	none		
25.	The uniqueness of Keibul Lamja	io Na	ational Park is because	ause	its				
	(a) Sinking park		floating park	(c)	watery park	(d)	none		
26.	Our state animal "Sangai" is fou	ınd ir	1						
	(a) Delhi	` ′	Assam	(c)	Manipur	(d)	none		
27.	The bird "Nongin" is found main	nly in	1						
	(a) Tamenglong district			(b)	Ukhrul district				
	(c) Senapati			` /	none				
28.	There are many identified Tiger		•		-				
	(a) 35	` ′	25	(c)	20	(d)	none		
29.	Vegetative propagation is done								
	(a) cabbage	(b)	potato	(c)	mustard	(d)	none		

30.	The process by which all the living	ng beings reproduce the	eir ov	wn kind is called		
	(a) multiplication	(b) explanation	(c)	reproduction	(c)	none
31.	Mushrooms can be reproduced fi	rom their				
	(a) leaves	(b) spores	(c)	roots	(d)	none
32.	Fern plant can be reproduced from	m the				
	(a) seed only	(b) spores	(c)	branch only	(d)	none
33.	The plant which can be multiplied	d by using their root is				
	(a) potato	(b) carrot	(c)	ginger	(d)	none
34.	Which one of the following is not	t a stem?				
	(a) ginger	(b) potato	(c)	radish	(d)	none
35.	The embryo of a seed becomes a	new				
	(a) root	(b) branch	(c)	plant	(d)	leaf
36.	The growth of a baby plant from	a seed is called				
	(a) growing	(b) living	(c)	germination	(d)	none
37.	The outer hard covering of a seed	d is called				
	(a) seed envelope	(b) seed guard	(c)	seed coat	(d)	none
38.	The plumule of a seed will produ	ce				
	(a) the root	(b) the stem	(c)	the soil	(d)	none
39.	The process of spreading seeds to	o different places is cal	led			
	(a) contribution of seed	(b) roaming of seed	(c)	dispersal of seed	(d)	none
40.	The seed which is not dispersed	by water is				
	(a) seeds of Thangjing	(b) coconut	(c)	seed of water lily	(d)	none
41.	In big cities, the municipal corpor	rations set up zones of	trees	s called		
	(a) green zone	(b) green house	(c)	green belt	(d)	none
42.	The World Environment Day is o	bserved every year on				
	(a) 5 th December	(b) 15 th June	(c)	15 th June	(d)	None
43.	Those farmers who migrate from	one place to another for	r cult	tivation are known	as	
	(a) Tenant farmers	(b) subsistence farme	rs			
	(c) big farmers	(d) marginal farmers				
44.	The Bengal famine occurred in A	ugust				
	(a) 1955	(b) 1945	(c)	1965	(d)	none
45.	The saliva changes starch into					
	(a) sugar	(b) glucose	(c)	energy	(d)	none
46.	In hot regions of Rajasthan the ho	ouses are made of thic	k			
	(a) wooden wall	(b) brick wall	(c)	earth wall	(d)	none
47.	The house named igloos are mad	e of				
	(a) bricks	(b) stones	(c)	ice-bergs	(d)	none
48.	All worker ants are					
	(a) males	(b) females	(c)	males & females	(d)	none
49.	A bee colony has					
	(a) one queen	(b) two queens	(c)	three queens	(d)	none
50.	Which one of the following is not					
	(a) flood	(b) fire	(c)	earthquake	(d)	none

 Regd. No.: 3/SR/TH/1999
 F.M.: 100

 Class-VI (Science)
 Time: 1 hrs.

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1.	The process of conversion of water vapour into its liquid state is called									
	(a) evaporation	(b) condensation	(c)	sedimentation	(d)	none				
2.	Separation of sugar from tea can	be done with,								
	(a) filtration	(b) decantation	(c)	evaporation	(d)	none				
3.	Choose the reversible change fro	m the following								
	(a) ripening of mango	(b) souring of milk	(c)	cooking of food	(d)	none				
4.	In a flower, the ovules are present	nt								
	(a) outside the ovary	(b) inside the ovary	(c)	inside the anther	(d)	none				
5.	Usually, plants manufacture their	foods at their								
	(a) stems	(b) leaves	(c)	roots	(d)	none				
6.	Plants with weak stem that cannot	ot stand upright but spr	ead	on the ground are	called					
	(a) climbers	(b) herbs	(c)	shrubs	(d)	none				
7.	Midrib of a leaf runs prominently at the									
	(a) margin of the leaf	(b) middle of the leaf	•							
	(c) apex of the leaf	(d) none								
8.	Deficiency of Vitamin-C causes a	disease known as								
	(a) Anaemia	(b) Goitre	(c)	Scurvey	(d)	none				
9.	Silk fibre is drawn from the coco	on of								
	(a) earthworm	(b) silkworm	(c)	ringworm	(d)	none				
10.	Ginning of cotton was traditional	lly done								
	(a) by animals	(b) by machine	(c)	by hand	(d)	none				
11.	The process of making yarn from									
	(a) weaving	(b) knitting	(c)	ginning	(d)	none				

Which one of the following is no	t a synthetic fibre?				
(a) nylon	(b) wool	(c)	polyester	(d)	none
Which of the following substance	e is insoluble in water	?			
(a) salt	(b) sugar	(c)	chalk powder	(d)	none
Which is the opaque material am	ong the following?				
(a) glass	(b) wood	(c)	oiled paper	(d)	none
Which one of the following is no	t from the animals?				
(a) milk	(b) eggs	(c)	mustard oil	(d)	none
The animals which eat both plant	ts and animals are calle	ed			
(a) carnivores	(b) omnivores	(c)	man eater	(d)	none
Bees store the nectar for their us	e				
(a) for 6 month only	(b) for 1 month only	(c)	all through the ye	ear	(d) none
Which one of the following is no	t a carnivore?				
(a) dog	(b) cat	(c)	deer	(d)	none
Vitamins help in protecting our b	oody against				
(a) pain	(b) hunger	(c)	diseases	(d)	none
Our body uses calcium for bone	and teeth formation w	ith th	e help of		
(a) Vitamin-C	(b) Vitamin-D	(c)	Vitamin-B	(d)	none
At the time of birth the human sk	celeton is composed of	arou	nd		
(a) 205 bones	(b) 503 bones	(c)	305 bones	(d)	none
At the chest of human body, the	total number of ribs pr	esent	is		
(a) 12	(b) 44	(c)	24	(d)	none
Earthworm moves with the help	of				
(a) legs	(b) skin	(c)	muscle	(d)	none
A cockroach has two pairs of					
(a) eyes	(b) legs	(c)	wings	(d)	none
The bones of birds are					
(a) solid and thin	(b) hollow and light	(c)	hard and big	(d)	none
Camels excrete small amount of					
(a) sweat	(b) urine	(c)	dung	(d)	none
_		ig org	ganism ?		
		(c)	grows	(d)	none
Č	of yaks is				
• •	(b)		•		
•		` ′	none		
	_				
(a) fish	`(b) whale	(c)	frog	(d)	none
Ovary of a flower is present at the	ne lower portion of				
(a) the sepal	(b) the petal		the pistil	(d)	none
	(a) nylon Which of the following substance (a) salt Which is the opaque material am (a) glass Which one of the following is no (a) milk The animals which eat both plant (a) carnivores Bees store the nectar for their us (a) for 6 month only Which one of the following is no (a) dog Vitamins help in protecting our b (a) pain Our body uses calcium for bone (a) Vitamin-C At the time of birth the human sh (a) 205 bones At the chest of human body, the (a) 12 Earthworm moves with the help (a) legs A cockroach has two pairs of (a) eyes The bones of birds are (a) solid and thin Camels excrete small amount of (a) sweat Which of the following is not a c (a) needs food The main function of long hairs (a) to protect from enemies (c) to keep them cool Which one of the following orga (a) fish	Which of the following substance is insoluble in water (a) salt (b) sugar Which is the opaque material among the following? (a) glass (b) wood Which one of the following is not from the animals? (a) milk (b) eggs The animals which eat both plants and animals are called (a) carnivores (b) omnivores Bees store the nectar for their use (a) for 6 month only (b) for 1 month only Which one of the following is not a carnivore? (a) dog (b) cat Vitamins help in protecting our body against (a) pain (b) hunger Our body uses calcium for bone and teeth formation with the time of birth the human skeleton is composed of (a) 205 bones (b) 503 bones At the chest of human body, the total number of ribs proceed (a) 12 (b) 44 Earthworm moves with the help of (a) legs (b) skin A cockroach has two pairs of (a) eyes (b) legs The bones of birds are (a) solid and thin (b) hollow and light Camels excrete small amount of (a) sweat (b) urine Which of the following is not a characteristics of a living the main function of long hairs of yaks is (a) to protect from enemies (b) (b) to keep them cool Which one of the following organism do not have gills	(a) nylon (b) wool (c) Which of the following substance is insoluble in water? (a) salt (b) sugar (c) Which is the opaque material among the following? (a) glass (b) wood (c) Which one of the following is not from the animals? (a) milk (b) eggs (c) The animals which eat both plants and animals are called (a) carnivores (b) omnivores (c) Bees store the nectar for their use (a) for 6 month only (b) for 1 month only (c) Which one of the following is not a carnivore? (a) dog (b) cat (c) Vitamins help in protecting our body against (a) pain (b) hunger (c) Our body uses calcium for bone and teeth formation with the (a) Vitamin-C (b) Vitamin-D (c) At the time of birth the human skeleton is composed of arou (a) 205 bones (b) 503 bones (c) At the chest of human body, the total number of ribs present (a) 12 (b) 44 (c) Earthworm moves with the help of (a) legs (b) skin (c) A cockroach has two pairs of (a) eyes (b) legs (c) The bones of birds are (a) solid and thin (b) hollow and light (c) Camels excrete small amount of (a) sweat (b) urine (c) Which of the following is not a characteristics of a living org (a) needs food (b) needs air (c) The main function of long hairs of yaks is (a) to protect from enemies (b) to ke (c) to keep them cool (d) Which one of the following organism do not have gills? (a) fish '(b) whale (c)	(a) nylon (b) wool (c) polyester Which of the following substance is insoluble in water? (a) salt (b) sugar (c) chalk powder Which is the opaque material among the following? (a) glass (b) wood (c) oiled paper Which one of the following is not from the animals? (a) milk (b) eggs (c) mustard oil The animals which eat both plants and animals are called (a) carnivores (b) omnivores (c) man eater Bees store the nectar for their use (a) for 6 month only (b) for 1 month only (c) all through the year of the following is not a carnivore? (a) dog (b) cat (c) deer Vitamins help in protecting our body against (a) pain (b) hunger (c) diseases Our body uses calcium for bone and teeth formation with the help of (a) Vitamin-C (b) Vitamin-D (c) Vitamin-B At the time of birth the human skeleton is composed of around (a) 205 bones (b) 503 bones (c) 305 bones At the chest of human body, the total number of ribs present is (a) 12 (b) 44 (c) 24 Earthworm moves with the help of (a) legs (b) skin (c) muscle A cockroach has two pairs of (a) eyes (b) legs (c) wings The bones of birds are (a) solid and thin (b) hollow and light (c) hard and big Camels excrete small amount of (a) sweat (b) urine (c) dung Which of the following is not a characteristics of a living organism? (a) needs food (b) needs air (c) grows The main function of long hairs of yaks is (a) to protect from enemies (b) to keep them warm (c) to keep them cool Which one of the following organism do not have gills? (a) fish (b) whale (c) frog	(a) nylon (b) wool (c) polyester (d) Which of the following substance is insoluble in water? (a) salt (b) sugar (c) chalk powder (d) Which is the opaque material among the following? (a) glass (b) wood (c) oiled paper (d) Which one of the following is not from the animals? (a) milk (b) eggs (c) mustard oil (d) The animals which eat both plants and animals are called: (a) carnivores (b) omnivores (c) man eater (d) Bees store the nectar for their use (a) for 6 month only (b) for 1 month only (c) all through the year Which one of the following is not a carnivore? (a) dog (b) cat (c) deer (d) Vitamins help in protecting our body against (a) pain (b) hunger (c) diseases (d) Our body uses calcium for bone and teeth formation with the help of (a) Vitamin-C (b) Vitamin-D (c) Vitamin-B (d) At the time of birth the human skeleton is composed of around (a) 205 bones (b) 503 bones (c) 305 bones (d) At the chest of human body, the total number of ribs present is (a) 12 (b) 44 (c) 24 (d) Earthworm moves with the help of (a) legs (b) skin (c) muscle (d) A cockroach has two pairs of (a) eyes (b) legs (c) wings (d) The bones of birds are (a) solid and thin (b) hollow and light (c) hard and big (d) Camels excrete small amount of (a) sweat (b) urine (c) dung (d) Which of the following is not a characteristics of a living organism? (a) needs food (b) needs air (c) grows (d) The main function of long hairs of yaks is (a) to protect from enemies (b) to keep them warm (c) to keep them cool (d) none

Class-VI (Science)

31. The place where a particular group of organisms live is called its							
	(a) house	(b)	nest	(c)	habitat	(d)	none
32.	Earthworms breathe through the	ir					
	(a) nostril	(b)	mouth	(c)	skin	(d)	none
33.	One kilometer is equal to						
	(a) $1x10^3$ cm	(b)	$1x10^3 \text{ mm}$	(c)	1x10 ⁶ mm	(d)	none
34.	Which of the following is incorre	ect?					
	(a) $1 \text{ litre} = 1000 \text{ ml}$	(b)	SI unit of volume	is m	3		
	(c) $1 \text{ hour} = 3600 \text{ seconds}$	(d)	none				
35.	The broad, green part of the leaf	is ca	alled				
	(a) Apex	(b)	petiole	(c)	lamina	(d)	none
36.	Transpiration takes place at the						
	(a) roots	(b)	leaves	(c)	flowers	(d)	none
37.	The innermost part of a flower i	s cal	led the				
	(a) petal	(b)	sepal	(c)	pistil	(d)	none
38.	The parts of a pistil are						
	(a) sepal, petal & petiole	(b)	arial, apex & carp	el			
	(c) stigma, style & ovary	(d)	none				
39.	One metre is equal to the						
	(a) 10 times of 1 cm	(b)	100 times of 1 cm	ì			
	(c) 1000 times of 1 cm	(d)	none				
40.	Which one of the following is the	e cor	rect relation?				
	(a) $1 \text{ km} = 10^3 \text{ cm}$	(b)	$1 \text{ km} = 10^3 \text{ m}$	(c)	$1 \text{ km} = 10^3 \text{ mm}$	(d)	none
41.	The SI unit of length is						
	(a) kilometre	(b)	centimeter	(c)	metre	(d)	none
42.	The height of a person is 0.65 me	etre,	then the height of	the p	erson in terms of o	centin	netre will be
	(a) 6.5 cm	(b)	65 cm	(c)	650 cm	(d)	none
43.	Which one of the following is no						
	(a) Sun	(b)	Star	(c)	Moon	(d)	none
44.	Which one of the following is no	t opa	aque?				
	(a) glass	(b)	plastic	(c)	wood	(d)	none
45.	The objects not having its own li	ght i	s called				
	(a) luminous	(b)	opaque	(c)	non-luminous	(d)	none
46.	An electric cell has						
	(a) one terminal	(b)	two terminals	(c)	three terminals	(d)	none
47.	Those substances through which	elec	tric current can pas				
	(a) opaque	` ′	conductors	` /	insulators	(d)	none
48.	A simple device that is used to ei	ither	break or complete	e the	electric circuit is c	alled	
	(a) cell	(b)	battery	(c)	switch	(d)	none
49.	An electric bulb has						
	(a) one terminal	(b)	two terminals	(c)	four terminals	(d)	none
50.	Light travels in						
	(a) zig zag line	(b)	curve line	(c)	straight line	(d)	none

Regd. No.: 3/SR/TH/1999

F.M.: 100

Time: 1hrs.

<u>Class-VII (Science)</u>

Instructions:

* There are 50 questions with four alternatives of which one is the correct/most appropriate answer.

Each question carry 2 marks.

* The correct/most appropriate choice should be marked in the answer sheet with a ball point pen only, by darkening the circle. Answer once marked cannot be changed.

* If any candidate is found using unfair means of any kind, he or she shall be expelled from the test without any prior warning. Using any calculator/mobile phone/smart watch etc. is strictly prohibited in the exam hall.

* Extra sheet will be provided on demand.

* The decision of the Assn. with regard to the conduct of exam shall be final & finding to the candidate.

The living organisms which make their food themselves are called						
	(a) heterotrophs	(b) autotrophs	(c)	cytotrops	(d)	none
2.	The bodies of living organisms a	are made of tiny units ca	alled			
	(a) nucleus	(b) membranes	(c)	cells	(d)	none
3.	The green pigment present in the	e leaves are called				
	(a) vessels	(b) chlorophyll	(c)	cytoplasm	(d)	none
1.	The pores present on the surface	e of leaves are called				
	(a) membrane	(b) stomata	(c)	guard cells	(d)	none
5.	During the photosynthesis of pla	ants				
	(a) nitrogen is released	(b) carbon dioxide is	s rele	ased		
	(c) oxygen is released	(d) none				
5.	Chlorophyll is present in the					
	(a) roots	(b) leaves	(c)	branches	(d)	none
7.	The process of breakdown of co	emplex food into the sin	npler	forms is called		
	(a) ingestion	(b) nutrition	(c)	digestion	(d)	none
3.	The first set of teeth which grow	vs during infancy is calle	ed			
	(a) white teeth	(b) permanent teeth	(c)	milk teeth	(d)	none
9.	The wind pipe carries air from the	he nostrils to the				
	(a) heart	(b) liver	(c)	lungs	(d)	none
10.	Our human stomach is					
	(a) L-shape	(b) U-shape	(c)	J-shape	(d)	none
11.	In the human body, the largest gl					
	(a) pancreas	(b) liver	(c)	kidneys	(d)	none

12.	Bile juice is secreted by the					
	(a) gall bladder	(b) kidneys	(c)	stomach	(d)	none
13.	The role of bile juice in digestion	is to digest the				
	(a) protein	(b) fats	(c)	carbohydrates	(d)	none
14.	The length of large intestine is ab	out				
	(a) 2.5 m	(b) 0.5 m	(c)	1.5 m	(d)	none
15.	Silk fibres come from					
	(a) moth	(b) silkmoth	(c)	sheep's moth	(d)	none
16.	Pashmina shawls are made from	the fur of				
	(a) Angora goats	(b) Tibet goats	(c)	Kashmiri goats	(d)	none
17.	Sheepsare reared for their					
	(a) meat	(b) wool	(c)	bone	(d)	none
18.	The process of taking out thread	s from cocoon for use	as sil	lk is called		
	(a) refining the silk	(b) filtering the silk	(c)	reeling the silk	(d)	none
19.	The instrument which is used to	measure the temperatu	re of	a body is called		
	(a) Barometer	(b) Calorimeter	(c)	Thermometer	(d)	none
20.	The normal temperature of huma	n body is				
	(a) 35° c	(b) 27° c	` /	37^{0} c	(d)	none
21.	Generally, the heat is transferred	by the process of con	ducti	on in		
	(a) liquids	(b) gases	(c)	solids	(d)	none
22.	Which one of the following is no					
	(a) copper	(b) silver	(c)	plastic	(d)	none
23.	Usually, sea breeze occurs at the					
	(a) night time	(b) day time	(c)	both day and nigh	t	(d) none
24.	Wool is					
	(a) poor conductor of heat		(b)	good conductor o	f hea	t
	(c) good conductor of electricit	у	(d)	none		
25.	Heat can flow from one object to	another in				
	(a) one mode	(b) two modes	(c)	three modes	(d)	none
26.	The substance which do not change	ge the colour of red an	ıd blu	e litmus are known	as	
	(a) acidator	(b) indicator	(c)	neutral	(d)	none
27.	The blue litmus can be changed i	nto red by				
	(a) bases	(b) acids	(c)	neutral substances	s(d)	none
28.	Rusting of iron is a					
	(a) physical change	(b) chemical change	(c)	reversible change	(d)	none
29.	When carbon-dioxide is passed the	` ′		3	. /	
	(a) magnesium chloride is forme	_	(b)	sodium carbonate	is fo	rmed
	(c) calcium carbonate is formed		(d)	none		
	· /		()			

30.	Rainfall is measured by an instru	iment called				
	(a) barometer	(b) sonometer	(c)	rain gauge	(d)	none
31.	All the changes in the weather of	f a place are caused by	the			
	(a) moon	(b) sun	(c)	star	(d)	none
32.	Warm air is lighter than the					
	(a) hot air	(b) cold air	(c)	moving air	(d)	none
33.	In Japan, a cyclone is known as					
	(a) Hurricane	(b) Tornado	(c)	Typhoon	(d)	none
34.	A violent Torando can travel at the	he speed of about				
	(a) 500 km/h	(b) 300 km/h	(c)	200 km/h	(d)	none
35.	The rotting dead matter in the so	oil is called				
	(a) clay	(b) humus	(c)	silt	(d)	none
36.	The best top soil for growing pla	ants is called				
	(a) clay soil	(b) sandy soil	(c)	loamy soil	(d)	none
37.	The water holding capacity is hig	ghest in				
	(a) loamy soil	(b) sandy soil	(c)	clay soil	(d)	none
38.	The percolation rate of water is l	nighest in the				
	(a) loamy soil	(b) sandy soil	(c)	clay soil	(d)	none
39.	The intake of air rich in oxygen	into the body is called				
	(a) respiration	(b) exhalation	(c)	inhalation	(d)	none
40.	The breathing rate is generally re	ead per				
	(a) hour	(b) minute	(c)s	econd	(d)	none
41.	Earthworms breathe through the	ir				
	(a) nostrils	(b) lungs	(c)	skins	(d)	none
42.	The blood vessels which carry or	xygen rich blood from l	neart	to other parts of th	ne boo	dy is called
	(a) veins	(b) arteries	(c)	capillaries	(d)	none
43.	The circulation of blood was disc	covered by				
	(a) Columbus	(b) Einstien	(c)	William Harvey	(d)	none
44.	From the kidneys, the urine goes	into the				
	(a) gall bladder	(b) diaphram	(c)	Urinary bladder	(d)	none
45.	A virtual image larger than the ol	bject can be produced l	oy a			
	(a) concave lens	(b) convex mirror	(c)	plane mirror	(d)	none
46.	The male reproductive parts in a	flower are				
	(a) petals	(b) stamens	(c)	pistil	(d)	none
47.	In sexual reproduction a male ar	nd a female gamete fuse	e to f	orm a		
	(a) pistil	(b) zygote	(c)	angiosperm	(d)	none
48.	The reproductive part of a plant	is the				
	(a) leaf	(b) stem	(c)	flower	(d)	none
49.	The distance moved by the vehic	les can be measured w	ith			
	(a) a stethoscope	(b) an odometer	(c)	a speedometer	(d)	none
50.	The type of magnet present in th	e electric bell is				
	(a) permanent magnet	(b) a bar magnet	(c)	an electromagnet	(d)	none

Regd. No. : 3/SR/TH/1999

F.M.: 100

Time: 1hrs.

* There are 50 questions with four alternatives of which one is the correct/most appropriate answer. Each question carry 2 marks.

Class-VIII (Science)

- * The correct/most appropriate choice should be marked in the answer sheet with a ball point pen only, by darkening the circle. Answer once marked cannot be changed.
- * If any candidate is found using unfair means of any kind, he or she shall be expelled from the test without any prior warning. Using any calculator/mobile phone/smart watch etc. is strictly prohibited in the exam hall.
- * Extra sheet will be provided on demand.

Instructions:

* The decision of the Assn. with regard to the conduct of exam shall be final & finding to the candidate.

1.	Which one of the following is not a kharif crop?								
	(a) p	paddy	(b)	maize	(c)	wheat	(d)	none	
2.	The s	supply of water to crops at re	egul	ar intervals is calle	d				
	(a) c	concentration	(b)	irrigation	(c)	cropping	(d)	none	
3.	After	harvesting the seed grains n	eed	to be separated fro	om tl	ne chaff by a proces	ss cal	led	
	(a) v	winnowing	(b)	gathering	(c)	threshing	(d)	none	
4.	The d	lisease causing micro organia	sms	are called					
	(a) c	carriers	(b)	pathogens	(c)	harmful	(d)	none	
5.	Polio	is caused by							
	(a) t	pacteria	(b)	protozoa	(c)	virus	(d)	none	
6.	Com	mon cold is caused by							
	(a) b	pacteria	(b)	virus	(c)	fungi	(d)	none	
7.	Whic	h one of the following is the	con	nmunicable disease	?				
	(a) I	Diabetes	(b)	Cholera	(c)	Cancer	(d)	none	
8.	Paste	eurisation is discovered by							
	(a) A	Alexander	(b)	Rombus	(c)	Hennery	(d)	none	
9.	Whic	h of the following is an antib	oiotio	e ?					
	(a) s	sodium hydroxide	(b)	alcohol	(c)	yeast	(d)	streptomycin	

Class-VIII (Science)

10.	The process of conversion of su	gar into alcohol is call	ed					
	(a) nitrogen fixation	(b) moulding	(c)	fermentation	(d)	infection		
11.	The first fully synthetic fibre is							
	(a) rayon	(b) nylon	(c)	polyester	(d)	none		
12.	Which one is not the thermosett	ing plastic?						
	(a) melamine	(b) polythene	(c)	bakelite	(d)	none		
13.	Rayon is different from synthetic	c fibres because						
	(a) it has silk like appearance		(b)	it is obtained from	n wo	od pulp		
	(c) its fibre can be wooven like	e those of natural fibre	(d)	none				
14.	Choose the most reactive metal	from the given below						
	(a) copper	(b) zinc	(c)	iron	(d)	none		
15.	In general, metallic oxides are							
	(a) acidic in nature	(b) basic in nature	(c)	neutral in nature	(d)	none		
16.	Which of the following can be b	eaten into thin sheets?	,					
	(a) phosphorus	(b) zinc	(c)	oxygen	(d)	none		
17.	Coke is a pure form of							
	(a) oil	(b) stone	(c)	carbon	(d)	none		
18.	Natural gas (CNG) is used as a	fuel for transport becau	ıse, it	produces				
	(a) high smoke	(b) less pollution	(c)	less power	(d)	none		
19.	The process in which a substance react with oxygen to give off heat and light is called							
	(a) reaction	(b) evolution	(c)	combustion	(d)	none		
20.	The lowest temperature at which	h a substance catches f	ire is	called its				
	(a) burning temperature	(b) combusting temp	peratu	ıre				
	(c) ignition temperature	(d) none						
21.	The non-luminous zone of a flan	ne has the						
	(a) lowest temperature	(b) highest temperat	ure					
	(c) moderate temperature	(d) none						
22.	The calorific value of a fuel is e	xpressed in						
	(a) kilo joule per kg	(b) kilo joule per gm	n (c)	kilo joule per lb	(d)	none		
23.	The fuel with the highest calorif	ic value is						
	(a) coal	(b) LPG	(c)	hydrogen	(d)	none		

24.	Which is not the milch animal?					
	(a) eagle	(b) goat	(c)	cow	(d)	none
25.	Removal of cattles that are not he	ealthy and with low mi	lk yie	eld from the farm is	s calle	ed
	(a) selection	(b) screening	(c)	weeding	(d)	none
26.	The father of white revolution in	India is				
	(a) Dr. Ambedkar	(b) Dr. Homio Bhaba	(c)I	Dr. V. Kurein	(d)	none
27.	The scientific name of Pengba is					
	(a) Labeo bata	(b) Acantopsis	(c)	Glytothorax	(d)	none
28.	The rearing of bees for honey is o	called				
	(a) peciculture	(b) apiculture	(c)	sericulture	(d)	none
29.	Weeds are controlled by using ce	ertain chemicals called				
	(a) pesticides	(b) harvecides	(c)	weedicides	(d)	none
30.	The single celled organisms are c	alled				
	(a) monocellular	(b) unicellular	(c)	millicellular	(d)	none
31.	The green coloured plastids are c	called				
	(a) leucoplasts	(b) chromoplasts	(c)	chloroplasts	(d)	none
32.	The process of fusion between th	ne egg and the sperm is	calle	ed		
	(a) immunization	(b) fermentation	(c)	fertilization	(d)	none
33.	Menstruation occurs once in abou	ut				
	(a) 20 to 28 days	(b) 28 to 30 days	(c)	25 to 35 days	(d)	none
34.	Chromosomes present in the nuc	leus of cells of human b	being	g is		
	(a) 46 pairs	(b) 13 pairs	(c)	23 pairs	(d)	none
35.	In humans, the vocal sound is pro	oduced by the				
	(a) tongue	(b) larynx	(c)	vocal cord	(d)	none
36.	In humans throat consist of					
	(a) two vocal cords	(b) three vocal cords	(c)	one vocal cord	(d)	none
37.	Sound can't travel through the					
	(a) liquids	(b) solids	(c)	vacuum	(d)	none
38.	The human audible frequencies is	s roughly from				
	(a) 200 to 2000 Hz	(b) 25 to 25,000 Hz	(c)	20 to 20,000 Hz	(d)	none
39.	The process of depositing a layer is called	of any desired metal o	n an	other material by n	neans	of electricity
	(a) electrolysis	(b) electroplating	(c)	electrocution	(d)	none

Class-VIII (Science)

40.	The unit of frequency is expre	ssed in				
	(a) decibel	(b) hertz	(c)	amplitude	(d)	none
41.	The force per unit area is called	1				
	(a) loudness	(b) pressure	(c)	pushing	(d)	none
42.	If the amplitude of vibration is	large, the sound is				
	(a) feeble	(b) shrill	(c)	loud	(d)	none
43.	The passage of an electric curre	ent through a solution c	auses			
	(a) lightning effect	(b) chemical effect	(c)	magnetic effect	(d)	none
44.	Current flows through an electr	olyte, due to				
	(a) movement of electrons		(b)	movement of ion	ıs	
	(c) movement of water molecular	ules	(d)	none		
45.	The loudness of sound depends	on its				
	(a) frequency	(b) amplitude	(c)	oscillation	(d)	none
46.	Rolling friction is					
	(a) greater than the sliding fric	etion	(b)	same to the sliding	ng frict	tion
	(c) smaller than the sliding frie	etion	(d)	none		
47.	The force exerted by a charged	body on another charg	ed or	uncharged body is	know	n as
	(a) electromagnetic force		(b)	electrostatic force	e	
	(c) frictional force		(d)	none		
48.	Objects fall towards the earth b	ecause it pulls them. The	nis for	ce is called		
	(a) activial force	(b) dignified force	(c)	gravitational for	ce(d)	none
49.	Choose the correct statement					
	(a) cell wall is not found in pla	ant cells				
	(b) vacuoles in animal cells are	e much smaller				
	(c) cell membrane is found in	the plant cells				
	(d) none					
50.	The testes produce the male ga	metes called				
	(a) eggs	(b) sperms	(c)	zygote	(d)	none

Regd. No.: 3/SR/TH/1999

Class-IX(Science)

F.M.: 100 Time: 1hrs.

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There are 50 questions with four alternatives of which one is the correct/most appropriate answer. Each question carry 2 marks.

- The correct/most appropriate choice should be marked in the answer sheet with a ball point pen only, by darkening the circle. Answer once marked cannot be changed.
- If any candidate is found using unfair means of any kind, he or she shall be expelled from the test

	without any prior warning. Using ited in the exam hall.	any calculator/mobil	e phone/smart watch	etc. is strictly prohib-		
*	Extra sheet will be provided on d	emand.				
*	The decision of the Assn. with reg date.	ard to the conduct of	exam shall be final &	finding to the candi-		
1.	Water at 0°C changes into ice with	th temperature remain	ing unchanged. The p	process		
	a) absorps heat	b) releases heat				
	c) neither absorps nor releases he	eat d) is irreversible				
2.	Which of the following can not be considered a form of matter?					
	a) atom	b) moisture	c) dust	d) none.		
3.	Because of which of the followin changes from one form to anoth	• 1	ns constant when a su	bstance		
	a) loss of heat	b) absorption of hear	t			
	c) latent heat	d) lattice energy.				
4.	The most suitable conditions for liquefaction of a gas are					
	a) increase temperature & decrease pressure					
	b) increase pressure & decrease temprature					
	c) decrease temperature & decrease pressure					
	d) increase temperature & increase pressure.					
5.	When a spoonful of salt is dissolbecause	lved in a bucketful of	water, volume of wa	iter does not increase		
	a) salt is solid and water is liquid		b) salt reacts with v	water		
	c) there are no spaces between the	ne particles of matter	d) there are spaces betw	veen the particles of matter		
6.	Which of the following is likely t	o diminish its size wh	en kept for a long tim	e in open air?		
	a) a block of camphor		b) a naphthalene ba	.11		
	c) ammonium chloride crystals		d) all the above.			

7.	A non-metal yet a good cond	uctor is						
	a) aluminium	b) silicon	c) graphite	d) gold.				
8.	Which of the following conta	ins maximum number o	of molecules?					
	a) 1g CH ₄	b) 1g H ₂	c) 1g N ₂	d) 1g CO _{2.}				
9.	The formula of a compound i	s AB, if A is divalent th	nen the valency of A is					
	a) 0	b) 1	c) 2	d) 3.				
10.	Which of the following repres	sent a correct formula	?					
	a) CaCl	b) CaNO ₃	c) $Ca_3(PO_4)_2$	d) $Ca(SO_4)_2$				
11.	Choose the incorrect stateme	nt						
	a) Isotopes contain equal number of protons							
	b) Isobars contain equal number of neutrons							
	c) Electrons & protons have equal but opposite charges							
	d) None of the above.							
12.	Which of the following has co	ompletely filled shells?						
	a) Na ⁺	b) Ne	c) Mg^{2+}	d) all the above.				
13.	An atom is electrically neutra	An atom is electrically neutral because the charge on						
	a) neutron is zero	b) eletron is negati	ive					
	c) protron is positive	c) protron is positive d) electron and proton are equal and opposite.						
14.	The symbol of an element is A	As. Its name is						
	a) Astatine	b) Arsenic	c) Antimony	d) Silver.				
15.	The latin name of Antimony i	S						
	a) Stannum	b) Argentum	c) Stibium	d) Plumbum.				
16.	Which of the following is inco	Which of the following is incorrect statement?						
	a) The atomic mass of Hydro	gen is 1u	b) The molecular	mass of NaCl is 35.5u				
	c) The formula mass of NaCl	c) The formula mass of NaCl is 35.5u d) None.						
17.	Which of the following is a ba	alanced chemical equat	ion?					
	a) $C(s) + O_2(g) \rightarrow CO_2(g)$	b) $Mg(s) + 2H$	$HCl(aq) \rightarrow MgCl_2(aq)$	$+H_2(g)$				
	c) $N_2(g) + 3H_2(g) \to 2NH_3$	(g) d) All the abo	ve.					
18.	An object of mass 2kg is slidi the force required to keep the	_		nstant velocity of 4m/s,				
	a) 0N	b) 2N	c) 8N	d)32N.				
19.	Action and Reaction always							
	a) act on the same body in op	posite direction	b) act in different be	odies in opposite direction				

d) are not related.

c) have same magnitude and direction

Class-IX(Science)

20.	The speed of a car weighing 150 change in momentum of the car	_	km/h to 72km/h unifo	ormly. What will be the				
	a) 15000kgm/h	b) 1500kgkm/s	c) 15000 kgm/s	d) None.				
21.	If a living cell is imersed in a sat	rurated solution of salt	it will					
	a) swell up	b) burst	c) shrink	d) remain unchanged.				
22.	In a prokaryotic cell, which of the	he following is/are not	absent					
	a) mitochondria	b) chloroplasts	c) golgi bodies	d) chromosome.				
23.	Oxysomes are present in							
	a) lysosomes	b) chromosomes	c) mitochondria	d) nucleus.				
24.	Choose the odd term							
	a) karyokinesis	b) cytokinesis	c) amitosis	d) osmosis.				
25	Which of the following is not a	connective tissue?						
	a) ligament	b) epethelium	c) tendon	d) blood.				
26.	The type of cell not found in Xy	elem is						
	a) Trachieds	b) Vessels	c) Parenchyma	d) Sieve tubes				
27.	Occurrence of varience in organ	isms is due to						
	a) amitosis	b) mitosis	c) meiosis	d) all the above				
28.	Which of the following is incorr	ectly matched in Taxor	nomic classification?	•				
	a) Phylum - Chordata	b) Species - Primate	es					
	c) Genus - Hominidae	d) Species - Homosa	apiens					
29.	A microscopic organism with ch	nlorophyll like a plant a	and muscle fibres like	e an animal is				
	a) Amoeba	b) Parmacium	c) Euglena	d) Mushroom.				
30.	Unicellular, eukaryotic organism	ns while some are mult	icellular. These are					
	characteristics of kingdom							
	a) Monera	b) Protista	c) Fungi	d) Planta.				
31.	Plants included in Thallophyta h	ave						
	a) true roots	b) no Xylem tissue	c) true leaves	d) no chloroplasts				
32.	More than 90% of all plants on earth are included in							
	a) Gymnosperms	b) Bryophytes	c) Angiosperms	d) Pteridophytes.				
33.	Fishes are included in the class							
	a) Cyclostoma	b) Placodermi	c) Osteichthyes	d) all the above.				
34.	A bacterium that produces toxir	ns in the small intestine	after the contamina	ted food is eaten,is				
	a) staphylococus aureus	b) Clostridium p	erfringens					
	c) Mycobacterium tuberculosis	d) none.						
35.	Salmonella typhi is							
	a) a virus	b) a protozoan	c) a bacterium	d) a fungus.				
36.	Chronic malaria is not caused by	y						
	a) P. falciparum	b) P. vivax	c) P. ovale	d) none.				

37.	In 1905 Nobel Prize for med	licine was given to						
	a) Robert Frost	b) Robert Boyle	c) Robert Koch	d) A. Flamming.				
38.	A stone is released from the before hitting the ground wi		nt 19.6m. The final velo	city of the stone just				
	a) 384 · 6m/s	b) 196m/s	c) 19.6m/s	d) 9 · 8m/s.				
39.	Two particles are placed at shortened by half, the value of		-	doubled and distance				
	a) 1/4 times	b) 4 times	c) 1/2 times	d) unchanged.				
40.	On increasing the temperatu	re, the speed of sound in	ı air					
	a) increases	b) decreases	c) remains unchange	ed d) none				
41.	Musical instruments are adjuisted?	sted with one another be	efore starting a concert.	What factor of sound				
	a) amplitude	b) frequency	c) loudness	d) intensity.				
42.	Speed of a wave is 380m/s a	and its frequency is 1900	Hz. The wavelength of	the given wave is				
	a) 20m	b) 380m	c) 0 · 2cm	d) 0 · 2m.				
43.	A saline solution contains 50 of the solution is	g of salt in 450g of wate	r. The mass by mass perc	entage concentration				
	a) 10·7%	b) 0 ⋅ 1%	c) 10%	d) 9%.				
44.	Calculate the mass of Alumi	nium prsent in $51g$ of A	l_2O_3 (Atomic mass of A	l=27) is				
	a) 54g	b) 27g	c) 18g	d) 36g.				
45.	Which of the following is an	incorrect relation of mo	otion?					
	a) $s = ut + \frac{1}{2}at^2$	b) $v = u + at$	c) $v^2 - u^2 = 2as$	d) none.				
46.	A body of mass 10kg at rest is accelerated at 10m/s ² in 10sec.							
	What is the momentum of the	ne body?						
	a) 10kgm/s	b) 100kgm/s	c) 1000kgm/s ²	d) 1000kgm/s.				
47.	Three stones of masses $m_1 >$	$m_2 > m_3$ are dropped f	rom a tower at the same	time.				
	Assumming no disturbance the time taken by the stones t_1, t_2 and t_3 will be							
	a) $t_1 > t_2 > t_3$	b) $t_3 > t_2 > t_1$	c) $t_3 = t_2 = t_1$	d) not related .				
48.	Choose the odd one in terms	s of their SI units						
	a) Work	b) Energy	c) Heat	d) Power.				
49.	The work done by a machine	e at the rate of 1000 wat	tts in one hour is express	sed as				
	a) 1000 hp	b) 1hp	c) 1KWh	d) 1J				
50.	From the soil plants can abso	orp						
	a) capillary water only	b) hygroscopic wa	ter only					

d) all the above.

c) gravitational water only

Regd. No.: 3/SR/TH/1999

Class-III (Maths.)

F.M.: 100 Time: 1½hrs.

Instructions:

* There are 50 questions with four alternatives of which one is the correct/most appropriate answer. Each question carry 2 marks.

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- * Extra sheet will be provided on demand.
- * The decision of the Assn. with regard to the conduct of exam shall be final & finding to the candidate.

1.	The number just before 9990 i	S		
	(a) 991	(b) 9909	(c) 9988	(d) 9989
2.	The sum of the place value and	d face value of 6 in 5642	2 is	
	(a) 600	(b) 660	(c) 066	(d) 606
3.	The sum of the largest 3-digit	number and the smalles	st 3-digit number is	
	(a) 1099	(b) 1009	(c) 1900	(d) 1090
4.	place lies left to the l	nundreds place in a num	ber system	
	(a) tens	(b) thousands	(c) ones	(d) none
5.	Division is the process of repe	ated		
	(a) Multiplication	` '	(c) Addition	(d) none
6.	1840 less than 15349 is equal	to		
	(a) 12509	(b) 3509	(c) 17149	(d) none
7.	By how much the sum of 4382		he difference of the nur	nbers?
	(a) 7764	(b) 8764	(c) 4972	(d) none
8.	If zero is devided by any non z	-		
	(a) that number itself	(b) dividend	(c) infinity	(d) zero
9.	If $5 \times 3 = 15$, its division fact is	S		
	(a) $3 \times 5 = 5$	(b) $15 \times 3 = 5$	(c) $15 \div 3 = 5$	(d) none
10.	The standard unit of length is			
	(a) kilogram	(b) kilometre	(c) centimetre	(d) metre
11.	One fourth of a kilogram is eq	ual to		
	(a) 750 grams	(b) 250 grams	(c) 1000 grams	(d)500 grams
12.	480ml + 830ml - 26ml =	<i>ml</i>		
	(a) 1483	(b) 1362	(c) 1336	(d) 1284

Class-III (Maths.)

13.	Chaoba drives to school for 1 ho			way	back home he take	es 1 h	our 15 mins.
	Find how long did Chaoba drive			(a)	2 h 20 min	(4)	nono
1./	(a) 2 hr 40 min	(0)	2 h 50 min	(6)	2 II 20 IIIII	(d)	none
14.	12 weeks and 4 days is equal to (a) 90 days	(h)	84 days	(a)	99 days	(4)	48 days
15.	The weight of a packet is 84 kg^2					(d)	46 days
13.	(a) $84330 g$	_	84430 g		-	(d)	none
16.	A girl runs $620 m$ in 1 minute. Fi		-			(u)	попс
10.	(a) $3900 m$		605 <i>m</i>	•		(d)	9300 m
17.	Convert 3 kg 675 g into grams	(0)	005 m	(0)	033 m	(u))300 m
17.		(b)	3575 g	(c)	3675 g	(d)	none
18.	Fill in the blank $490g = 307g + $	` ′		(•)	30,08	(4)	
	(a) 138 g		797 g	(c)	3675 g	(d)	none
19.	Kilometre and metre are denoted	res	pectively by the sy	mbo	ls		
	(a) "kg" and "m"	(b)	"t" and "g"	(c)	"km and "m"	(d)	none
20.	To convert grams into kilograms	, we	have to		by 1000.		
	(a) subtract	(b)	add	(c)	devide	(d)	multiply
21.	There are centime	tres	in one metre.				
	(a) 100	(b)	10	(c)	1000	(d)	1
22.	9 times is 1800						
	(a) 100	(b)	20	9c)	200	(d)	2000
23.	$2 \times 3 \times 4 = \underline{\hspace{1cm}} \times 2$						
	(a) 10	(b)	12	(c)	7	(d)	6
24.	The of any number and	0 is	0				
	(a) sum	(b)	difference	(c)	product	(d)	none
25.	days = 2 years.						
	(a) 730	(b)	365	(c)	366	(d)	200
26.	$475 \times 2 \times 30 = \underline{\qquad} \times 475$						
	(a) 50	(b)	60	(c)	475	(d)	none
27.	Number of legs of 20 camels is						
	(a) 40	(b)	20	(c)	100	(d)	80
28.	3 tens + 4 hundreds + 9 ones giv	es		` /		` /	
	(a) 349		439	(c)	943	(d)	4039
29.	How many lines can be drawn pa	()		` ′			
	(a) infinite	(b)	two	(c)	one	(d)	none
30.	A is bounded by for	ır lin	e segments	` /		` /	
	(a) triangle		square	(c)	cone	(d)	sphere
31.	Football is an example of		-	` /		\ /	1
	(a) rectangle		square	(c)	sphere	(d)	triangle
32.	The numbers which are divisible		-		_	(-)	
<i>5</i> 2 •	(a) ones		tens		hundreds	(d)	none
	(4) 01100	(0)		(5)	1141141 040	(4)	110110

33.	567 books are distributed equa left.	lly to 8 students, then	each of them got	books and	
	(a) 700 and 7	(b) 70 and 7	(c) 575 and 0	(d) none	
34.	Find out the correct one	(0) , 0 ,	(5) 5 / 5 3223 5	(4) 110110	
5	(a) $66 = 10 \times 5 + 6$	(b) $83 = 4 \times 9 + 4$	0		
			U		
	(c) $74 = 4 \times 15 + 14$	(d) $12 = 3 \times 3 + 2$			
35.	Three and half dozens of pen ar student have got?	e distributed to sever	ı students equally, then l	now many pens by	y each
	(a) 6	(b) 60	(c) 16	(d) 50	
36.	Find the remainder of 64136 ÷	8			
	(a) 1	(b) 0	(c) 6	(d) 8017	
37.	How many edges are there in a	cube			
	(a) 16	(b) 8	(c) 12	(d) 6	
38.	Remainder is always smaller th	nan			
	(a) 1	(b) divisor	(c) product	(d) 0	
39.	72 students are standing in 6 re	ows. How many stud	ents are there in each re	ow?	
	(a) 18	(b) 66	(c) 78	(d) 12	
40.	Devide the smallest 4-digit nur	nber by 10, then the	remainder will be		
	(a) 1	(b) 10	(c) 0	(d) 1111	
41.	Calculate: $4681 + 92 - 68 - 72$, the answer is			
	(a) 4913	(b) 4633	(c) 6433	(d) 3346	
42.	Tomba earns Rs. 6500 per mor	nth, he saves Rs. 1500) per month. What is his	monthly expendi	ture?
	(a) Rs. 8000	(b) rs. 4000	(c) Rs. 5000	(d) none	
43.	Find the answer: $(4+4+4+4+4+4+4+4+4+4+4+4+4+4+4+4+4+4+4+$	(2+2+2+2+2)	ı		
	(a) 16	(b) 100	(c) 12	(d) 6	
44.	Any number plus zero is numb				
	(a) itself		(c) 1	(d) none	
45.	Any number minus one is its _				
4.5	(a) successor	(b) 0	(c) predecessor	(d) none	11 0
46.	In a village, there are 465 men,		-	=	llage?
47	(a) 2330	(b) 1330	(c) 14330	(d) 3330	
47.	+ 1 = smallest 4-dig		. 34		
	(a) largest 2-digit number	` ′	=		
48.	(c) largest 3-digit number		git number.		
40.	Half of $50 + 12$ dozens =	(b) 194	(c) 169	(d) none	
49.	Besides X, can also b		· /	(d) Hone	
17.	(a) V	(b) I	(c) C	(d) L	
50.	The and of	` '	(0)	(a) L	
	(a) successor, place value	•	ace value		
	(c) predecessor, face value		· · · •		

Regd. No. : 3/SR/TH/1999

Class-IV (Maths.)

There are 50 questions with four alternatives of which one is the correct/most appropriate answer.

F.M.: 100 Time: 1½hrs.

Instructions:		

* * *	Each question carry 2 man The correct/most appropri only, by darkening the circ If any candidate is found a without any prior warning ited in the exam hall. Extra sheet will be provide The decision of the Assn. we date.	ate choice should be ma cle. Answer once marked using unfair means of any Using any calculator/m ed on demand.	cannot be changed. kind, he or she shall be obile phone/smart watch	e expelled from the test to etc. is strictly prohib-
1.	Sum of the smallest and la	argest number from the fo	ollowing numbers is	
	98989, 98899, 98988, 989	998, 99889		
	(a) 198878	(b) 198898	(c) 198798	(d) none
2.	What number should be number ?	subtracted from the sma	llest 3-digit number to	get the largest 2-digit
	(a) 991	(b) 91	(c) 90	(d) none
3.	How many factors are the	re of 91 ?		
	(a) 1	(b) 2	(c) 3	(d) none
4.	Find the largest number in	$\frac{15}{17}, \frac{15}{18}, \frac{15}{19}, \frac{15}{21}$		
	(a) $\frac{15}{17}$	(b) $\frac{15}{18}$	(c) $\frac{15}{19}$	(d) $\frac{15}{21}$
5.	Tomba's age is 17 years o	ld in 2011. What was his	age in 2004 ?	
	(a) 28 years	(b) 37 years	(c) 47 years	(d) none
6.	$0.005 \times 0.09 \times 5 = $			
	(a) 0.005	(b) 0.00225	(c) 0.025	(d) none
7.	A car covered a distance opetrol?	of 522km with 36 litres of	f petrol. How far can it	travel with 14 litres of
	(a) 223 km	(b) 213 km	(c) 203 km	(d) none
		1		

8.	Write the correct number to c	omplete the statement	13×100×=	= 1300000
	(a) 10	(b) 1000	(c) 10000	(d) none
9.	Which one of the following is	equivalent to 6.063?		
	(a) 6+0.6+0.3	(b) 6+0.6+0.03	(c) 6+0.06+0.03	d) none
10.	A shopkeeper losses Rs. 120 much he should sell the radio		780. To earn the pro	ofit of Rs. 120, for how
	(a) Rs. 820	(b) Rs. 900	(c) Rs. 720	(d) none
11.	Find the sum of two numbers 6 as quotient and 2 as remained		and second number w	when devided by 7 gives
	(a) 44	(b) 54	(c) 94	(d) 98
12.	One dozen of days divided by	four gives hou	rs	
	(a) 72 hrs	(b) 82 hrs	(c) 92 hrs	(d) none
13.	The number whose place value	e and face values are al	ways equal is	
	(a) 1	(b) 0	(c) 2	(d) none
14.	A line segment that joins two	points on the circumfer	ence of a circle is cal	led
	(a) chord	(b) arc	(c) radius	(d) none
15.	Which of the following is true			
	(a) $C.P = S.P - Loss$	(b) $S.P = C.P + Lc$	ss	
	(c) $S.P = C.P + Profit$	(d) Profit = $C.P$ –	S.P	
16.	The capacity of a syntex is 10 water will be required to fill the	• •	bucket is 100 ml. Ho	w many buckets full of
	(a) 5000	(b) 10000	(c) 2000	(d) none
17.	What is the length of the miss	ing side ?		11 <i>cm</i>
	(a) 5 m	(b) 15 <i>cm</i>	?	Perimeter=40 <i>cm</i> 9 <i>cm</i>
	(c) 5 cm	(d) none		15cm
	(c) 3 cm	(d) none		1 <i>50m</i>
18.	Binoy takes earned leave from he got leave?		ch in 2012. What is th	
18.	Binoy takes earned leave from		ch in 2012. What is the control of t	
	Binoy takes earned leave from he got leave?	n 1 st January to 30 th Mar (b) 90 days		he total number of days
	Binoy takes earned leave from he got leave? (a) 89 days	n 1 st January to 30 th Mar (b) 90 days		he total number of days
18. 19.	Binoy takes earned leave from he got leave? (a) 89 days The smallest prime number and	(b) 90 days deven number is/are (b) 2	(c) 91 days	he total number of days (d) none

21.	62 hundredths is same as					
	(a) 0.62	(b) 0.062	(c)	6200	(d)	none
22.	On order from least to greatest	of the numbers 0.99, 0.	099,	9.9, 0.9 is		
	(a) 0.99, 0.099, 9.9, 0.9	(b) 0.99, 9.9, 0.099,	0.9			
	(c) 9.9, 0.9, 0.99, 0.099	(d) 0.099, 0.9, 0.99,	9.9			
23.	A closed plane figure with four	sides and each side are	same	e in length is called		
	(a) Hexagon	(b) Pentagone	(c)	Heptagon	(d)	none
24.	3 hrs 40 minutes equals to					
	(a) 120 mins	(b) 180 mins	(c)	220 mins	(d)	none
25.	The area and peremeter of a rec	tangle of 20 cm in leng	th an	d 15 <i>cm</i> in breath i	S	
	(a) 70 cm and 300 cm	(b) 300 sqcm and 70	cm			
	(c) 90 sqcm and 70 cm	(d) none				
26.	A man covered 50 cm in one ste	ep, then the number of s	steps	required to cover	one ki	ilometer is
	(a) 100	(b) 200	(c)	800	(d)	2000
27.	Multiply 89 by 9 and subtract 34	42 from the product, de	evide	the result by 17. T	he qu	otient is
	(a) 54	(b) 17	(c)	24	(d)	none
28.	The sum of first five multiples o	f 10 is				
	(a) 250	(b) 300	(c)	100	(d)	150
29.	Which of the following fraction	is the greatest fraction	?			
	8	7		11		5
	(a) $\frac{8}{13}$	(b) $\frac{7}{13}$	(c)	$\frac{11}{13}$	(d)	13
30.	Diameter of a circle with 8 cm r	radius is				
	(a) 4 <i>cm</i>	(b) 16 <i>cm</i>	(c)	2cm	(d)	none
31.	Which one is not correct relatio	nship ?				
	(a) 100 thousand = 1 lakh	(b) $9 \text{ KL} = 9000 l$				
	(c) 10 years = 1 decade	(d) $9m\ 9cm = 99cm$				
32.	$90 + 7 + \frac{9}{100} + \frac{9}{1000} = \underline{\hspace{1cm}}$?				
	(a) 9.78	(b) 11.3	(c)	98.88	(d)	none
33.	What time will it be 3600 secon	ds after 12 mid night.				
	(a) 0000 hour	(b) 1 a.m.	(c)	0002 hrs	(d)	none
		_				
		3				

34.	Chaoba walks away 3km from himany km is Chaoba apart from h	,	back and walk two and	half kilometers. How
	(a) 2 & half <i>km</i>	(b) 5 & half <i>km</i>	(c) 1 & half <i>km</i>	(d) half km
35.	How many wheels are there in 1	12 and half dozens of A	Auto rickshaw?	
	(a) 144	(b) 450	(c) 164	(d) 600
36.	Robinson has 72 horses in his fir Robinson have ?	m. He has 6 times as m	any as his horse as his c	ow. How many cows
	(a) 16 cows	(b) 66 cows	(c) 12 cows	(d) none
37.	Tony has 15 stickers. He wants he can put them on the cover w	*		project. In what way
	(a) 3 rows of 5 stickers each	(b) 5 rows of 2 stick	kers each	
	(c) 3 rows of 6 stickers each	(d) 5 rows of 4 stick	kers each	
38.	How many 25 paise stamps can	you buy for Rs. 200?		
	(a) 600	(b) 800	(c) 2000	(d) none
39.	The sides of a triangle are 6cm,	4cm and $5cm$. The nar	ne of the triangle is	
	(a) scalene triangle	(b) equilateral triang	gle	
	(c) Isoceles triangle	(d) none		
40.	Tinku has a rectangle. The value of the following is the right figure		ngle is half the value of	its perimetre. Which
	(a)	(b) ←4 →	1 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	
	(c)	(d) ←8 →	↑ 4 ↓	
41.	Add: 2914909+8430+10+13	4+644=		
	(a) 39,20,127	(b) 29,24,137	(c) 29,24, 127	(d) none
42.	Standard unit of time is			
	(a) minute	(b) second	(c) day	(d) hour

Itams	Drigg in Dg. par ka	\neg			
Items	Price in Rs. per kg	_			
Tomato	28				
Onion	36				
Potato	30				
	2				
a man buys 2kg of Ton	nato, $\frac{3}{4}kg$ of onion and $4kg$	of pota	to, the man give	s a 200	0 rupee note
Iow much will the sho	pkeeper give back to the man	?			
a) 1977	(b) 1797	(c)	977	(sd)	non e
What is the duration of	the time between 4 a.m. and	7 p.m. i	n a day?		
a) 16hrs	(b) 14hrs	(c)	15hrs	(d)	none
add the smallest and gr	reatest 6 digit numbers that ca	n be for	rmed using the g	given dig	gits 6, 0, 4, 8
a) 12, 91, 119	(b) 22, 91, 129	(c)	92, 11, 384	(d)	none
low many composite n	numbers are there between 59	and 79	?		
a) 12	(b) 14	(c)	15	(d)	13
Monalisa can type 155	pages daily. How many pages	she car	n type in the mor	nth of N	ovember?
a) 6650	(b) 5650	(c)	4650	(d)	3650
redeccessor of smalles	et 10-digit number is				
a) 9999999	(b) 999999999	(c)	999999999	(d)	999999
Addition of $\frac{3}{16}, \frac{4}{16}$ and	$\frac{7}{16}$ gives				
a) $\frac{16}{16}$	(b) $\frac{14}{16}$	(a)	$\frac{15}{16}$	(4)	$\frac{16}{14}$
a) $\frac{16}{16}$	$\frac{(0)}{16}$	(6)	16	(d)	14

Regd. No.: 3/SR/TH/1999 F.M.: 100 Time: 1½hrs.

Class-V (Maths.)

Instructions:

* There are 50 questions with four alternatives of which one is the correct/most appropriate answer. Each question carry 2 marks.

- * The correct/most appropriate choice should be marked in the answer sheet with a ball point pen only, by darkening the circle. Answer once marked cannot be changed.
- * If any candidate is found using unfair means of any kind, he or she shall be expelled from the test without any prior warning. Using any calculator/mobile phone/smart watch etc. is strictly prohibited in the exam hall.
- * Extra sheet will be provided on demand.
- * The decision of the Assn. with regard to the conduct of exam shall be final & finding to the candidate.

1.	The difference between the p	redecessor and the succes	ssor o	f one million is		
	(a) 1	(b) 2	(c)	10,00000	(d)	9999999
2.	tens make a crore					
	(a) 10,000	(b) 10,00,000	(c)	1000	(d)	1,00,00,000
3.	$\times 2000 = 25,38,000$					
	(a) 16921	(b) 25,40,000	(c)	1269	(d)	none
4.	The successor of 49,99,999 i	s				
	(a) 49,99,998	(b) 60,00,000	(c)	50,00,000	(d)	none
5.	The digit immediate to the le	ft of ten lakhs is				
	(a) ten thousand	(b) lakh	(c)	crore	(d)	none
6.	$(45 \times 256 \times 3) \times (10 \times 0) = \underline{\hspace{1cm}}$					
	(a) 6483920	(b) 0	(c)	1	(d)	7483984
7.	The sum of all the angles of a	quadrilateral is	_•			
	(a) 180°	(b) 90°	(c)	120°	(d)	360°
8.	We need points to dr	aw a triangle				
	(a) 3 collinear	(b) 3 non collinear	(c)	both a& b	(d)	2 collinear
9.	A common example of a para	ıllel line is				
	(a) spokes in a wheel	(b) railway track	(c)	a protractor	(d)	none
10.	, and	are quadrilaterals				
	(a) rectangle, triangle, square	·e	(b)	square, rectang	le, triar	ngle
	(c) rectangle, square, paralle	elogram	(d)	rectangle, parall	elogran	n, octagon

Class-V (Maths.)

11.	Two lines are said to be parallel lines if										
	(a) they intersect at right angle.										
	(b) they meet at a common end point to form an angle										
	(c) they do not intersect at any point when extended on both side										
	(d) none	(d) none									
12.	A pentagon is a polygon with _										
	(a) 4 line segments	(b) 9 line segments									
	(c) 6 line segments	(d) 5 line segments									
13.	The two hands of a clock at 3.10 forms										
	(a) an acute angle	(b) an obtuse angle	(c)	a right angle	(d)	none					
14.	In a triangle ABC , $\angle A = 30^{\circ}$, $\angle B = 60^{\circ}$, then the triangle is										
	(a) an acute angle triangle	(b) an isosceles triang	gle								
	(c) a right angle triangle (d) an equilateral triangle										
15.	Of the following cases, construction of a triangle is not possible?										
	(a) $6cm, 6cm, 10cm$	(b) $5cm, 5cm, 10cm$	(c)	4cm, 5cm, 8cm	(d)	none					
16.	A triangle with all sides of same	elength is called									
	(a) a scalene ∆	(b) an isosceles ∆	(c)	an equilateral Δ	(d)	none					
17.	The diameter of a circle whose radius is 50 <i>cm</i> is										
	(a) 80 <i>cm</i>	(b) 1 <i>m</i>	(c)	510 <i>cm</i>	(d)	250cm					
18.	An arc is										
	(a) any part of the radius (b) any part of the diameter										
	(c) any part of the chord (d) any part of the circumstance										
19.	L.C.M of 13 and 15 is equal wi	th their									
	(a) addition	(b) division	(c)	product	(d)	none					
20.	The least multiple which is common for both 50 and 45 is										
	(a) 95	(b) 5	(c)	450	(d)	540					
21.	Find the odd one in the followin	g.									
	(a) 63	(b) 45	(c)	81	(d)	71					
22.	The three numbers whose L.C.M is 900 arc										
	(a) 15, 25, 36	(b) 15, 24, 35	(c)	18, 150, 200	(d)	10, 20, 30					
23.	The greatest prime number bety	ween 1 and 100 is									
	(a) 93	(b) 99	(c)	97	(d)	89					
24.	Highest common factor of 90,	45 and 25 is									
	(a) 15	(b) 5	(c)	90	(d)	160					
25.	Which of the following are twin prime?										
	(a) 31 and 37	(b) 7 and 11	(c)	11 and 13	(d)	3 and 7					
26.	Find out the improper fraction										
	16	17		170		6					
	(a) $\frac{16}{17}$	(b) $\frac{17}{16}$	(c)	$\frac{170}{191}$	(d)	$\frac{6}{9}$					
	1.7	10		1/1		,					

27.	Mixed fraction for $\frac{60}{19}$ is	_						
	(a) $3\frac{3}{90}$	(b) 3	$3\frac{3}{19}$	(c)	$19\frac{3}{3}$	(d)	none	
28.	$\frac{13}{25} + \frac{11}{10} = \underline{\hspace{1cm}}$							
	(a) $\frac{18}{50}$	(b)	$\frac{81}{50}$	(c)	$\frac{50}{81}$	(d)	none	
29.	A fraction is a part of a							
	(a) dozon	(b)	half	(c)	whole	(d)	quarter	
30.	The multiplication of a number and	l its r	eciprocal is always_					
	(a) zero	(b)	infinite	(c)	half the number	(d)	none	
31.	Tomba read $\frac{3}{4}$ parts of a book. If the book.	he re	maining unread pag	ge is 2	5, find the total nun	nber o	of pages of the	
	(a) 1000	(b)	100	(c)	105	(d)	800	
32.	$\frac{2}{5} + \frac{3}{6} + \frac{9}{10} = \underline{\hspace{1cm}}$							
	(a) $\frac{30}{54}$	(b)	$\frac{54}{30}$	(c)	$\frac{64}{30}$	(d)	$\frac{15}{30}$	
33.	$\frac{2 \times 10 \times 100 \times 1000}{4000000000} = \phantom{00000000000000000000000000000000000$	_						
	(a) 0.004	(b)	5	(c)	0.05	(d)	0.005	
34.	Virat score 65 marks in Maths, 48 marks in Chemistry and 91 in Manipuri. If full mark for each subject is 100. Find his % of mark scored.							
	(a) 68	(b)	86	(c)	92	(d)	72	
35.	Find the number whose 45% is 90	0.						
	(a) 200	(b)	2000	(c)	405	(d)	none	
36.	Naina was given $1\frac{1}{2}$ piece of cake a	and J	erina was given $1\frac{1}{3}$	piece	e of cake. Find the to	otal ar	mount of cake	
	given to both of them.							
	(a) $\frac{6}{17}$	(b)	$2\frac{5}{6}$	(c)	$6\frac{2}{5}$	(d)	none	
37.	The product of a fraction and its multiplication inverse is							
	(a) 0	(b)	1	(c)	fraction itself	(d)	none	
			3					

38.	5ml = % of a litre							
	(a) 0.005	(b)	0.05	(c)	0.5	(d)	none	
39.	27.5% of 1kg is			` /		()		
	(a) 27.5 <i>g</i>	(b)	275 <i>g</i>	(c)	2.75 <i>g</i>	(d)	0.275g	
40.	Which of the following is equivale	ent to	0.9% of one lakh					
	(a) 900	(b)	9	(c)	90	(d)	none	
41.	A book is bought for Rs. 30 and s	sold f	for Rs. 25. Find the l	loss p	ercentage.			
	(a) 26.7%	(b)	16.66%	(c)	8%	(d)	none	
42.	42. A dozen of pencils were bought for Rs. 240 and sold for Rs. 30 each. Therefore the profit on each and the total profit is and respectively.						on each pencil	
	(a) Rs. 10, Rs. 120	(b)	Rs. 20, Rs. 120	(c)	Rs. 15, Rs. 120	(d)	none	
				3				
43.	Where will the hand of a clock sto	op if i	t starts at 5 and mal	$\cos \frac{\pi}{4}$	of a revolution clo	ockwi	se?	
	(a) 5	(b)	6	(c)	2	(d)	none	
44.	The length of a rectangular hall is 4 breadth is <i>b</i> metres?	mete	ers less than 3 times t	the br	eadth of the hall. Wh	nat is t	he length if the	
	(a) $(4-3b)m$	(b)	(3b-4)m	(c)	$(25 \times b)m$	(d)	none	
45.	A room is $4m \log \text{ and } 3m 50cm$ of the room?	wide.	How many square	metre	es of carpet is neede	ed to c	over the floor	
	(a) 14 <i>sqm</i>	(b)	16 <i>sqm</i>	(c)	18 <i>sqm</i>	(d)	none	
46.	What is the distance travelled by S	Sarita	if she takes three co	omple	ete rounds of a squa	re par	k of side 70m.	
	(a) 940 <i>m</i>	(b)	840 <i>m</i>	(c)	1040 <i>m</i>	(d)	none	
47.	Find the value of 11.06 – 9.847	=						
	(a) 1.753	(b)	1.0753	(c)	2.743	(d)	none	
48.	What is the lowest form of the fraction of 13.5?							
	(a) $\frac{135}{100}$	(b)	$\frac{100}{135}$	(c)	$\frac{27}{2}$	(d)	none	
	(a) 100	(0)	135	(0)	2	(u)	HOIL	
49.	Add $2\frac{4}{5} + 3\frac{5}{6} = $							
	(a) $7\frac{19}{30}$	(b)	$6\frac{19}{30}$	(c)	$6\frac{30}{19}$	(d)	none	
50.	A right angle triangle can have		_					
	(a) one right angle, one acute angle and one obtuse angle							
	(b) one right angle and two obtu	se ang	gle					
	(c) one obtuse angle and two right angles							

(d) one right angle and two acute angles

. KHANGABOK, THOUBAL (MAN Regd. No. : 3/SR/TH/1999

Class-X (Maths.)

(b) a+b+4=0 (c) a+b+6=0 (d) a+b+2=0

(c) 4:3

(c) 3x + 2Y = 6

(d) none of these

(d) 3:5

F.M.: 100 Time: 1½hrs.

Instructions:

If $a^3 + b^3 + 8 = 6ab$ then

(a) a+b+8=0

(a) 4x + 6y = 12

(a) 1:4

prices of a pen and a pencil is

7.

8.

9.

HISUU	ictions:									
*	There are 50 questions with four alternatives of which one is the correct/most appropriate answer.									
	Each question carry 2 marks.									
*	The correct/most appropriate choice should be marked in the answer sheet with a ball point pen									
	only, by darkening the circle. Answer once marked cannot be changed.									
*		If any candidate is found using unfair means of any kind, he or she shall be expelled from the test								
	without any prior warning. Using any calculator/mobile phone/smart watch etc. is strictly prohib-									
	ited in the exam hall.	1 1								
*	Extra sheet will be provided on demand.									
~		The decision of the Assn. with regard to the conduct of exam shall be final & finding to the candi-								
	date.									
1.	The value of k when polynomial $x^3 + 3x^2 + 3x + k$ is divided by $x + 1$ giving remainder 2 is									
	(a) 0	(b) 1	(c) 2	(d)	3					
2.	For any natural numbers n and m $154^n + 231^m$ will be divisible by									
	(a) 7 and 11	(b) 7 only	(c) 11 only	(d)	13					
3.	The largest number that divides 114 and 217 which leaves the remainder 2 and 7 in each case is									
	(a) 98	(b) 14	(c) 9	(d)	88					
4.	The number of values of x satisfying $ x-2 =3$ is									
	The hamber of values of x satisf	$ \mathcal{X} = \mathcal{X} = \mathcal{Y} $								
	(a) 0	(b) 1	(c) 2	(d)	5					
5.	If $(x-1)$ is a factor of $\sqrt{2}x^2 + kx - 1$ then the values of $k^2 + 2\sqrt{2}$ is									
					_					
	(a) $1+\sqrt{2}$	(b) $3-2\sqrt{2}$	(c) 3	(d)	$3+\sqrt{2}$					
6.	$1234^{13} + 999^{13}$ is divisible by									
	(a) 2233	(b) 235	(c) 1234	(d)	999					

The graph of 2x + 3y = 6 intersect which one of the following equation at only one point

1

If the cost of 5 pens and 4 pencils is equal to the cost of 3 pens and 7 pencils then the ratio of the

(b) 4x + 6y = 15

(b) 3:2

Class-X(Maths.)

10.

What is the value of x?

	Statements: (i) $3x + 4y = 7$	(ii) $6x + 8y = 10$						
	Regarding these question and statement, which of the following is correct							
	(a) statement (i) alone is suffic	ient to answer the ques	tion					
	(b) statement (ii) alone is suffice	cient to answer the que	stion					
	(c) both statement (i) and (ii) a	are sufficient to answer	the question					
	(d) both statement (i) and (ii) a	are not sufficient to ans	wer the question					
11.	If $p+q+1=0$ in the quadratic	equation $px^2 + qx + 1 =$	0 then one of the root	s is				
	(a) $\frac{1}{a}$	$\frac{1}{2}$	(c) $\frac{1}{p+q}$	$(d) = \frac{1}{d}$				
	q	(0) p	(c) $p+q$	$(\mathbf{u}) p-q$				
12.	The quadratic equation $px^2 + (a^2 + b^2)$	(q-z)x+5=0 has root	s equal in magnitude b	ut opposite in sign.				
	Then the value of q^3 is							
	(a) 8	(b) -8	(c) 6	(d) -6				
13.	If one roots of the equation x^2	-px + q = 0 be twice the	ne other then					
	(a) $2p^2 = 9q$	(b) $2q^2 = 9p$	(c) $9p^2 = 2q$	$(d) 9q^2 = 2p$				
14.	The quadratic equation $3px^2 - 1$	2x + p = 0 has equal re	bots then the value of μ	$p^2 + \sqrt{3}$ is				
	(a) $3\sqrt{3}$	(b) $\sqrt{3}$	(c) $\sqrt{3}-12$	(d) $12 + \sqrt{3}$				
15.	Had Ram scored 10 more mark would have been the square of l			times these marks				
	(a) 6	(b) 10	(c) 15	(d) 18				
16.	The sum of n terms of an AP is	$(3n^2 + 5n)$. Which of it	es term is 164?					
	(a) 22 th	(b) 24 th	(c) 26 th	(d) 28 th				
17.	The middle term of AP 2, 6, 10),, 146 is						
	(a) 70	(b) 79	(c) 74	(d) 83				
18.	The tenth term common to both	AP's 3, 7, 11, and 1	, 6, 11, is					
	(a) 171	(b) 191	(c) 211	(d) none of these				
19.	The ratio of the perimeter of a triangle to the perimeter of the		ning the mid points of t	the sides of a given				
	(a) 1:4	(b) 1:2	(c) 2:3	(d) 5:4				
20.	Two towers of height 100m and distance between their feet is 600			e of ground. If the				
	(a) 61 m	(b) 60 <i>m</i>	(c) 100 m	(d) 111 m				
		2						

21.	The area of an equilateral triangle is $\sqrt{3}$ sq unit, then the length of a side is				
	(a) $\sqrt{3}$ units	(b) 3 units	(c) $\sqrt{2}$ units	(d) 2 units	
22.	Two concentric circles are of ractouches the smaller circle is	dii 13 <i>cm</i> and 5 <i>cm</i> . The	length of the chord of a	larger circle which	
	(a) 12 <i>cm</i>	(b) 24 <i>cm</i>	(c) 6 <i>cm</i>	(d) 18 <i>cm</i>	
23.	In the construction of a triangle,	if the scale factor is $\frac{3}{5}$	then		
	(a) the new triangle constructe	d is greater than the gi	ven triangle		
	(b) the new triangle constructe	d overlaps the given tri	iangle		
	(c) the new triangle constructe	d is congruent to the g	iven triangle.		
	(d) the new triangle constructe	d is smaller than the gi	ven triangle		
24.	To draw a pair of tangents to a cirdraw tangents at the end points of		•	- · · •	
	(a) 100°	(b) 120°	(c) 60°	(d) 90°	
25.	The value of $6 \text{ Cot}^2\text{A} - 6 \text{ Cosec}^2$	A+1 is			
	(a) -4	(b) 7	(c) 9	(d) -6	
26.	The value of $\frac{2 \tan 30^{\circ}}{1 + \tan^2 30^{\circ}}$ is				
	(a) sin 30°	(b) sin 60°	(c) cos 45°	(d) cos 60°	
27.	The value of $\cos^2 20^\circ + \cos^2 70^\circ$	is			
	(a) $\sqrt{2}$	(b) 0	(c) 1	(d) none of these	
28.	If $\tan \theta - \cot \theta = 0$, then the value	e of $\sin \theta + \cos \theta$ is			
	(a) 1	(b) $\frac{1}{\sqrt{2}}$	(c) $\sqrt{2}$	(d) none of these	
29.	The shadow of a standing tower elevation changes from 60° to		and to be $50m$ and $4m$ lo	nger when the sun's	
	(a) 45°	(b) 30°	(c) 90°	(d) none of these	
30.	The angles of elevation of the top in the same straight line with it are	•		m from the base and	
	(a) $2\sqrt{3}m$	(b) $3\sqrt{2}m$	(c) 12 <i>m</i>	(d) 7 <i>m</i>	

31.	If 1.6 <i>m</i> tall girl stands at a distarthe height of the lamp-post is	.юс 0 1 <i>3.2т</i> понга канц	9-post and east a snadov	v 014.6m on the ground
	(a) $\frac{7}{4}m$	(b) $\frac{8}{3}m$	(c) $\frac{5}{2}m$	(d) $\frac{6}{5}m$
32.	The ratio of the line joining (-3)	(-8,-9) and $(-8,-9)$ divi	ded at the point $\left(-5, \frac{-2}{3}\right)$	$\left(\frac{21}{5}\right)$ is
	(a) 1:2	(b) 1:3	(c) 4:3	(d) 2:3
33.	The area of a triangle is 2sq. un	its and the vertices of th	triangle are $(1,-2)$, ((3,4) and $(k,3)$ then
	(a) $k = 2$	(b) $k = 3$	(c) $k = 4$	(d) $k = 6$
34.	The points $(a,0)$, $(0,b)$ and $(2,0)$	2,2) are collinear if		
	(a) $\frac{1}{a} + \frac{1}{b} = 1$	(b) $\frac{1}{a} + \frac{1}{b} = \sqrt{2}$	(c) $\frac{1}{a} + \frac{1}{b} = 2$	(d) $\frac{1}{a} + \frac{1}{b} = 3$
35.	The radius of a wheel is 0.25cm	then the number of revo	olutions it will make to t	ravel a distance of 11km
	is		$use, \pi = \frac{22}{7}$	
	(a) 7000	(b) 1700	(c) 3500	(d) 2800
36.	The length of the arc of a sector	r of a circle with radius	π and angle θ (measur	ed in degrees) is
	(a) $\frac{\pi\theta r}{360}$	(b) $\frac{\pi\theta r^2}{360}$	(c) $\frac{2\pi\theta r}{180}$	(d) $\frac{2\pi\theta r}{360}$
37.	The area of the largest circle cir	cumscribing a square h	aving area 12cm² is	
	(a) $6\pi cm^2$	(b) $12\pi cm^2$	(c) $3\pi cm^2$	(d) $8\pi cm^2$
38.	Three cubes of a metal whose ϵ whose diagonal is $12\sqrt{3}cm$. The	_		verted into a single cube
	(a) $3cm, 4cm, 5cm$	(b) 6m,8cm,10cm	ı	
	(c) 18cm, 24cm, 30cm	(d) 24 <i>cm</i> , 32 <i>cm</i> , 4	10 <i>cm</i>	
39.	The diameter of the largest sph	ere that can be carved o	out of a cube of 4.2cm (e	dge's length) is
	(a) 1.2 <i>cm</i>	(b) 2.1 <i>cm</i>	(c) 4.2 <i>cm</i>	(d) 8.4 <i>cm</i>
40.	Water is flowing through a pipe wide. The level of the water in		•	•
	(a) $14km/hr$	(b) 15 <i>km/hr</i>	(c) 20km/hr	(d) 25km/hr

			$\left[use, \pi = \frac{22}{7}\right]$	
	(a) 12 <i>cm</i>	(b) 10 <i>cm</i>	(c) 15 <i>cm</i>	(d) 14 <i>cm</i>
42.	The abscissa of the point of inte quency distribution gives	ersection of the Less t	han Ogive and More tha	an Ogive of a group fre
	(a) third quartile	(b) first quartile	(c) median	(d) none
43.	The mean and median of a data a	are respectively $(x+1)$) and x . The mode of the	e distribution is
	(a) $(x-2)$	(b) 2 <i>x</i>	(c) $3x-2$	(d) $3x$
44.	When one of the variate values o	f a distribution is zero	, then	
	(a) Geometric Mean is applical	ble		
	(b) value of Harmonic Mean is	finite		
	(c) Arithmetic Mean is not app	licable		
	(d) Geometric Mean and Harm	onic Mean are not ap	plicable	
45.	In an all India level examination, total number of the candidates. T		•	y for the best 20% of th
	(a) 20 th percentile and above	(b) below 80 th per	rcentile	
	(c) 8 th decile and above	(d) third quartile of	of the distribution	
46.	A bag contains one red, one black probability of choosing first ball			cted at random. Then th
	(a) $\frac{1}{6}$	(b) $\frac{1}{3}$	(c) $\frac{2}{}$	(d) $\frac{1}{9}$
47.	From a pack of cards two cards a cards are found to be Aces. Which (a) the probability is $\frac{1}{221}$,	correct.	placement) then both th
47.	cards are found to be Aces. Which (a) the probability is $\frac{1}{221}$	ch of the following is	correct.	placement) then both th
47. 48.	cards are found to be Aces. Which (a) the probability is $\frac{1}{221}$	(b) both events ar(d) none of these	re independent	2
	cards are found to be Aces. Which (a) the probability is $\frac{1}{221}$ (c) the probability is $\frac{7}{12}$ If mutually exclusive events A , B	(b) both events ar (d) none of these	re independent	$(3) = \frac{2}{7}$
	cards are found to be Aces. Which (a) the probability is $\frac{1}{221}$ (c) the probability is $\frac{7}{12}$ If mutually exclusive events A , B	(b) both events ar (d) none of these 3 and C with probability (b) $P(C) = \frac{8}{21}$	correct. The independent ties $P(A) = \frac{1}{3}$ and $P(B)$ (c) $P(C) = \frac{19}{21}$	$(3) = \frac{2}{7}$
48.	cards are found to be Aces. Which (a) the probability is $\frac{1}{221}$ (c) the probability is $\frac{7}{12}$ If mutually exclusive events A , B (a) $P(C) = \frac{13}{21}$	(b) both events ar (d) none of these 3 and C with probability (b) $P(C) = \frac{8}{21}$	correct. The independent ties $P(A) = \frac{1}{3}$ and $P(B)$ (c) $P(C) = \frac{19}{21}$	$P(C) = \frac{2}{2}$
48.	cards are found to be Aces. Which (a) the probability is $\frac{1}{221}$ (c) the probability is $\frac{7}{12}$ If mutually exclusive events A , B (a) $P(C) = \frac{13}{21}$ Pairs of natural number whose II (a) 58 and 13	ch of the following is of the of the following is of the series and (d) none of these and C with probability (b) $P(C) = \frac{8}{21}$ LCM is 78 and HCF is (b) 26 and 91	ties $P(A) = \frac{1}{3}$ and $P(B)$ (c) $P(C) = \frac{19}{21}$ (d) 39 and 26	$(d) P(C) = \frac{2}{21}$ $(d) 65 \text{ and } 390$
48. 49.	cards are found to be Aces. Which (a) the probability is $\frac{1}{221}$ (c) the probability is $\frac{7}{12}$ If mutually exclusive events A , B (a) $P(C) = \frac{13}{21}$ Pairs of natural number whose I (a) 58 and 13 If $A = 4k + 2$ and $B = 4k - a$ for	ch of the following is of (b) both events are (d) none of these B and C with probability (b) $P(C) = \frac{8}{21}$ LCM is 78 and HCF is (b) 26 and 91 or any natural number	ties $P(A) = \frac{1}{3}$ and $P(B)$ (c) $P(C) = \frac{19}{21}$ (d) 39 and 26 (e) $P(C) = A$ and A	$P(C) = \frac{2}{2}$ (d) $P(C) = \frac{2}{2}$ (d) 65 and 39
48. 49.	cards are found to be Aces. Which (a) the probability is $\frac{1}{221}$ (c) the probability is $\frac{7}{12}$ If mutually exclusive events A , B (a) $P(C) = \frac{13}{21}$ Pairs of natural number whose II (a) 58 and 13	ch of the following is of the of the following is of the series and (d) none of these and C with probability (b) $P(C) = \frac{8}{21}$ LCM is 78 and HCF is (b) 26 and 91	ties $P(A) = \frac{1}{3}$ and $P(B)$ (c) $P(C) = \frac{19}{21}$ (d) 39 and 26	$(d) P(C) = \frac{2}{21}$ $(d) 65 \text{ and } 390$
48. 49.	cards are found to be Aces. Which (a) the probability is $\frac{1}{221}$ (c) the probability is $\frac{7}{12}$ If mutually exclusive events A , B (a) $P(C) = \frac{13}{21}$ Pairs of natural number whose I (a) 58 and 13 If $A = 4k + 2$ and $B = 4k - a$ for	(b) both events are (d) none of these B and C with probability (b) $P(C) = \frac{8}{21}$ LCM is 78 and HCF is (b) 26 and 91 or any natural number (b) 3	ties $P(A) = \frac{1}{3}$ and $P(B)$ (c) $P(C) = \frac{19}{21}$ (d) 39 and 26 (e) $P(C) = A$ and A	$P(C) = \frac{2}{21}$ (d) $P(C) = \frac{2}{21}$ (d) 65 and 390
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48. 49.	cards are found to be Aces. Which (a) the probability is $\frac{1}{221}$ (c) the probability is $\frac{7}{12}$ If mutually exclusive events A , B (a) $P(C) = \frac{13}{21}$ Pairs of natural number whose I (a) 58 and 13 If $A = 4k + 2$ and $B = 4k - a$ for	(b) both events are (d) none of these B and C with probability (b) $P(C) = \frac{8}{21}$ LCM is 78 and HCF is (b) 26 and 91 or any natural number (b) 3	ties $P(A) = \frac{1}{3}$ and $P(B)$ (c) $P(C) = \frac{19}{21}$ (d) 39 and 26 (e) $P(C) = A$ and A	$P(C) = \frac{2}{21}$ (d) $P(C) = \frac{2}{21}$ (d) 65 and 390
48. 49.	cards are found to be Aces. Which (a) the probability is $\frac{1}{221}$ (c) the probability is $\frac{7}{12}$ If mutually exclusive events A , B (a) $P(C) = \frac{13}{21}$ Pairs of natural number whose I (a) 58 and 13 If $A = 4k + 2$ and $B = 4k - a$ for	(b) both events are (d) none of these B and C with probability (b) $P(C) = \frac{8}{21}$ LCM is 78 and HCF is (b) 26 and 91 or any natural number (b) 3	ties $P(A) = \frac{1}{3}$ and $P(B)$ (c) $P(C) = \frac{19}{21}$ (d) 39 and 26 (e) $P(C) = A$ and A	$P(C) = \frac{2}{21}$ (d) $P(C) = \frac{2}{21}$ (d) 65 and 390

Regd. No.: 3/SR/TH/1999

Class-VI (Maths.)

F.M.: 100 Time: 1½hrs.

Instructions:

- * There are 50 questions with four alternatives of which one is the correct/most appropriate answer. Each question carry 2 marks.
- * The correct/most appropriate choice should be marked in the answer sheet with a ball point pen only, by darkening the circle. Answer once marked cannot be changed.
- * If any candidate is found using unfair means of any kind, he or she shall be expelled from the test without any prior warning. Using any calculator/mobile phone/smart watch etc. is strictly prohibited in the exam hall.
- * Extra sheet will be provided on demand.
- * The decision of the Assn. with regard to the conduct of exam shall be final & finding to the candidate.
- 1. Choose the correct statement
 - (a) Multiplication and division are associative for whole numbers.
 - (b) Subtraction and addition are associative for whole numbers
 - (c) Multiplication and addition are associative for whole numbers
 - (d) Division and subtraction are associative for whole numbers
- 2. Choose the false statement on the number line.
 - (a) Addition corresponds to moving to the right
 - (b) Subtraction corresponds to moving to the left
 - (c) Multiplication corresponds to making jumps of equal distance starting from zero
 - (d) none of the above
- 3. $6 \times 10^5 + 9 \times 10^4 + 5 \times 10^3 + 6 \times 10^{-2} + 2 \times 10^{-1}$ is equal to
 - (a) 6950000.26
- (b) 69500.26
- (c) 695000.62
- (d) 695000.26
- 4. What is the value of $37\frac{1}{2}\%$ of x?
 - (a) $\frac{5x}{2}$
- (b) $\frac{3x}{8}$
- (c) $\frac{4x}{25}$
- (d) $\frac{15x}{4}$

- 5. Which of the following statement is correct?
 - (a) A line has its mid point

- (b) A ray has its mid point
- (c) A line segment has its mid point
- (d) all the above

6.	How much $x - y$ is short of $x + y = 0$	<i>y</i> ?				
	(a) 2x	(b) 2 <i>y</i>	(c)	-2x	(d)	-2y
7.	Which of the following is not an	equation with a variab	ole?			
	(a) $5 \times 4 - 8 = 2x$	(b) $\frac{4x}{3} = 2x$	(c)	20 = 5y	(d)	7 - x = 5
8.	Mala is 4 years older than Rita. Bina. But Bina's age is only half	•			4 yea	rs older than
	(a) 20 years	(b) 24 years	(c)	12 years	(d)	16 years
9.	When a bottle full of honey was weighed with half the honey, its	-		-		ne bottle was
	(a) 100 <i>gm</i>	(b) 200 <i>gm</i>	(c)	300gm	(d)	400gm
10.	When it was asked to write 25 wrote it as 2,502,381. Rohan wr	_		~	Nume	eration, Rohit
	(a) Rohit	(b) Rohan	(c)	Both of them	(d)	none
11.	Mani bought a new car which course the cost to the nearest thousands				e cost	, he round off
	(a) 5,00,000	(b) 4,77,000	(c)	4,76,000	(d)	4,76,800
12.	If $12276 \div 155 = 79.2$, the value	of 122.76÷15.5 will b	e			
	(a) 7.092	(b) 7.92	(c)	79.02	(d)	79.2
13.	The value of 2.53×0.154 is the	same as				
	(a) 253×.00154	(b) 25.3×1.54				
	(c) 253×.0154	(d) .253×.0154				
14.	How many $\frac{1}{8}$, s are there in $37\frac{1}{2}$	$\frac{1}{2}$?				
	(a) 300	(b) 500	(c)	400	(d)	none of these
15.	I was 14 years old before 14 years	ars, what will be my age	e afte	r 14 years?		
	(a) 14 years	(b) 28 years	(c)	42 years	(d)	none of these
16.	Choose the correct statement					
	(a) Multiplication is distributive					
	(b) Addition and multiplication					
	(c) Multiplication is commutati	ve for both natural nur	nber	and whole number	S	
17.	(d) All the above When a student was asked how of	old he was the replied "	take r	my age three year h	ence	multiply it by
1/.	3 and then subtract three times r	-			ciicc,	типтрту и оу
	(a) 25 yrs	(b) 20 yrs	(c)	18 yrs	(d)	22 yrs

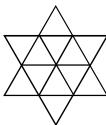
18.	In the numerals 0 to 99 wh	ich is the least repeated	digit ?			
	(a) 9	(b) 0	(c)	1	(d)	none of these
19.	Which one is not correct?					
	(a) Kilo shows 1000 times	larger (b)	Dec	ei shows 10 time	es larger	
	(c) Centi shows 100 times	smaller (d)	Mil	li shows 1000 ti	mes smal	ler
20.	Choose the correct: 41177	can be approximated to				
	(a) 41000	(b) 41100	(c)	41170	(d)	all the above
21.	How many different English	alphabet letters used to w	rite the Ro	oman numerals	?	
	(a) 9	(b) 7	(c)	11	(d)	5
22.	Which is not the expansion f	form of 105×107				
	(a) $100 \times 100 + 5 \times 100 + 100$	$00 \times 7 + 5 \times 7$	(b)	10000 + 500 -	+700+35	5
	(c) $(100+500)\times100+(100+100)$	$(00+7)\times 100+35$	(d)	none of the ab	oove	
23.	On a number line, from the p 4 steps to the left again. What			he left then 13 st	teps to the	right and then
	(a) -1	(b) $+3$	(c)	+1	(d)	none of these
24.	Choose the wrong statemen	t.				
	(a) the smallest positive int	eger is +1	(b)	the smallest ne	egative int	eger is _1
	(c) different two integers c	an have same difference	(d)	none of the ab	ove	
25.	The 7^{th} digit of $(202)^3$ is					
	(a) 2	(b) 4	(c)	8	(d)	6
26.	What is the total sum of the	numbers from -23 upto-	+25 ?			
	(a) 2	(b) 48	(c)	49	(d) 1	none of the above
27.	Successor of -125 is less the	nan predecessor of +125	by			
	(a) 0	(b) 250	(c)	2	(d)	248
28.	Which of the following state	ment is true?				
	(a) The whole number 0 has	as no predecessor.				
	(b) There are ten whole nu	mbers between 11 and 21				
	(c) The successor of a two	digit number is always a t	wo digit r	number		
	(d) The predecessor of a tv	vo digit number is never a	single dig	it		
29.	"Whole numbers are closed	under addition and multip	lication".	This property is	s known a	S
	(a) closer property	(b) commutative	property			
	(c) bi-closure property	(d) none of the ab	oove			

30.	Choose the true statement					
	(a) every positive integer is large	ger than every negative in	nteger			
	(b) zero is greater than every po	ositive integer				
	(c) zero is smaller than -3					
	(d) none of the above					
31.	The rule which gives the number	of match sticks required	d to make t	he match stick	patterr	n L is
	(a) 2 <i>n</i>	(b) 3 <i>n</i>	(c) $4n$	ı	(d)	5 <i>n</i>
32.	Which of the following statemen	t is true?				
	(a) greatest negative integer is	the presceding number o	of _2			
	(b) -10 is to the right of -8 or	n a number line				
	(c) $_{-11}$ is larger than $_{-10}$					
	(d) different between the succe	essor of -13 and the pre-	edecessor o	of _11 is zero		
33.	The side of a regular pentagon is	_				
	(a) 6 <i>l</i>	(b) 3 <i>l</i>	(c) 4 <i>l</i>		(d)	5 <i>l</i>
34.	The algebraic expression for "21	times x from which 1 is s	subtracted'	'is		
	(a) $1-2x$	(b) $2(x-1)$	(c) 2:	x-1	(d)	2-x
35.	Take any number then divide it be the remainder and add a 5 at the		e, add a 0 (zero) at the en	d. If it is	s not, ignore
	(a) multiply by 5	(b) dividing by 5	(c) m	ultiply by 7	(d) d	lividing by 3
36.	Which of the following has great	er perimeter?				
	(a) a regular pentagon with side	e 15 <i>cm</i> long				
	(b) a rectangle with length 23cd	m and breadth 12cm lon	g			
	(c) a square with side 18 <i>cm</i> lor	ng				
	(d) a regular octagon with side	11 <i>cm</i> long				
37.	There is a rectangular field with shape ponds with side of 10 <i>m</i> lea	•				-
	(a) 9600 <i>sq.m</i>	(b) 10,000 <i>sq.m</i>	(c) 92	200 <i>sq.m</i>	(d) 9	9400 <i>sq.m</i>
38.	If Brinda's present age is "x" ye	ears, what was her age 1	2 years ba	ck?		
	(a) $x+12$	(b) $x-12$	(c) x	×12	(d)no	one of the above
39.	How many triangles are there in	the figure?				\wedge
						$\overline{}$



(a) 20

(d) 24



40.	In a queue, the position of Manithoi is 11 when counted from left. But when counted from right his position is 7. Then how many children are there in the queue?				
	(a) 18	(b) 17			
	(c) 16	(d) can not determine	e		
41.	Ratan wants to cover the floor of is of $0.5m$ then how many tiles w			If each square file	
	(a) 48	(b) 52	(c) 46	(d) 125	
42.	What is the area of the largest to width "b" units?	riangle that can be fille	d into a rectangle of le	ngth "l" units and	
	(a) $\frac{lb}{3}$	(b) $\frac{2lb}{3}$	(c) $\frac{3lb}{4}$	(d) $\frac{lb}{2}$	
43.	For any integer a, b and $c (a-b)$	$-c \neq a - (b - c)$ unless			
	(a) $a = 0$	(b) $b = 0$	(c) $c=0$	(d) a = b = c	
44.	Simplified value of $1-2+3-4+$	5-6++19-2	20		
	(a) 0	(b) _9	(c) -10	(d) -11	
45.	Half the perimeter of a rectangul field?	ar filed is 350m. What	is the sum of the length	and breadth of the	
	(a) 175 <i>m</i>	(b) 700 <i>m</i>	(c) 350m	(d) none of the above	
46.	If $3x-14=2(6-5x)$, then the x	value of x is			
	(a) _2	(b) 3	(c) 1	(d) 2	
47.	What part of $\frac{3}{48}$ is $\frac{1}{2}$?				
	(a) $\frac{4}{9}$	(b) $\frac{3}{8}$	(c) 12	(d) $1\frac{1}{3}$	
48.	The three angles of a triangle are	$2x-10^{\circ}$, $2x+10^{\circ}$ and	d $x + 5^{\circ}$, then the small	llest angle will be	
	(a) 30°	(b) 40°	(c) 60°	(d) 35°	
49.	Some boys were playing. They are boy, one boy behind another boy,	•		•	
	(a) 3	(b) 4	(c) 13	(d) none of the above	
50.	24 is divided into two parts such 146. The first part is second part	-		second part makes	
	(a) 11	(b) 13	(c) 16	(d) 17	

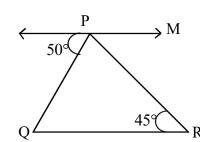
Regd. No.: 3/SR/TH/1999

Class-VII (Maths.)

F.M.: 100 Time: 1½hrs.

Instructions:

- * There are 50 questions with four alternatives of which one is the correct/most appropriate answer. Each question carry 2 marks.
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- * If any candidate is found using unfair means of any kind, he or she shall be expelled from the test without any prior warning. Using any calculator/mobile phone/smart watch etc. is strictly prohibited in the exam hall.
- * Extra sheet will be provided on demand.
- * The decision of the Assn. with regard to the conduct of exam shall be final & finding to the candidate.
- 1. How many elements are there in a triangle?
 - (a) 3
- (b) 6
- (c) 4
- (d) none of the above
- 2. Which of the following statement is true?
 - (a) a triangle can have two right angles
 - (b) a triangle can have two obtuse angles
 - (c) a triangle can have two acute angles
 - (d) a triangle can have all the angles less than 60°
- 3. Choose the false statement
 - (a) The sum of the lengths of any two sides of a triangle is less than the third side
 - (b) In a right angled triangle, the square of one side is equal to the sum of the squares of the another two sides
 - (c) if the Pythagorean property holds, the triangle must be right angled
 - (d) none of the above
- 4. In the following figure m||QR. Then, the measure of $\angle QPR$ is
 - (a) 80°
- (b) 85°
- (c) 75°
- (d) 70°



Class-VII (Maths.)

Which of the following can not be the sides of a right triangle?

	(a)	12cm, 12cm, 24cm	(b)	5cm, 12cm, 13c	em			
	(c)	6cm, 8cm, 10cm	(d)	3cm, 5cm, 4cm				
6.		ou want to show $\triangle A$ at more you need to sh			e use	of SAS criterion	n such	that $\angle T = \angle N$, $RT = EN$,
	(a)	PN=AT	(b)	PN=AR	(c)	PN=RT	(d) n	none of the above
7.		The state $\frac{3}{5}$ of an orange of the state of the sta	ge. T	he remaining ora	nge v	was eaten by Ma	ni. Wl	hat part of the orange was
	(a)	$\frac{1}{5}$	(b)	$\frac{3}{5}$	(c)	$\frac{4}{5}$	(d) r	none of the above
8.	If 1	.5x = 0.04y, then wh	nat is	the value of $\frac{y-y}{y+y}$	$\frac{x}{x}$?			
	(a)	70 77	(b)	$\frac{73}{77}$	(c)	75 77	(d) r	none of the above
9.	Hov	w much is 12% of 24	1.2 m	ore than 10% of	14.2	% ?		
	(a)	0.1484	(b)	14.84	(c)	1.484	(d)	2.762
10.	The	algebraic expression	nx+	(x+2)+(x+4)	repr	resents;		
	(a)	sum of three consec	cutive	e natural number	'S			
	(b)	sum of three consec	cutive	e odd numbers				
	(c)	sum of three consec	cutive	e even numbers				
	(d)	both (b) and (c)						
12.	Ab	asket contains 100 ap	pples	and 40 mangoes	s. Th	e fractional num	ber o	f apples in the basket is
	(a)	$\frac{5}{7}$	(b)	$\frac{2}{5}$	(c)	$\frac{5}{2}$	(d)	$\frac{7}{5}$
13.	Wh	ich of the following s	stater	nents is wrong?				
	(a)	When a positive int	eger	and a negative ir	ntege	r are added, we	alway	ys get a negative integer
	(b)	additive inverse of	8 is -	-8				
	(c)	additive inverse of	_8 is	s 8				
	(d)	For substraction, w integer	e add	I the additive inv	erse	of the integer th	at is b	being subtract to the other
				2				

14.	Which of the following is true?								
	(a)	(-8)+(-4)>(-8)-	-(-4)	(b)	(-8)+(-4)<(-8)-	(-4)		
	(c)	(-8)+(-4)=(-8)-	-(-4)	(d)	none of the abov	ve			
15.	(-1)×(-1)×(-1)×	(2m+1) times wh	nere n	<i>n</i> is a natural num	ıber, i	s equal to		
	(a)	1	(b) -1	(c)	1 or _1	(d) n	one of the above		
16.	The pap		r sheet of paper is $\frac{3}{5}$ cr	n and	d the breadth is $\frac{2}{5}$	cm.	What is the perimeter of the		
	(a)	1cm	(b) 2 <i>cm</i>	(c)	3 <i>cm</i>	(d)	4cm		
17.	Вуу	what fraction should	be multiplied by, to g	get $\frac{1}{1}$	16/35?				
	(a)	$1\frac{4}{25}$	(b) $\frac{25}{29}$	(c)	$\frac{24}{25}$	(d)	$\frac{29}{35}$		
18.	Wha	at is the place value of	f 2 in 15.03265?						
	(a)	200	(b) 0.02	(c)	0.002	(d)	0.2		
19.	Wri	te the statement in the	form of an equation:	Add	1 to three times <i>n</i>	to ge	t 7		
	(a)	3n+1=7	(b) $3n-1=7$	(c)	3n + 7 = 1	(d) n	one of the above		
20.	The	solution of the equation	on $0 = 4 + 4(m+1)$ is						
	(a)	1	(b) -1	(c)	2	(d)	-2		
21.	Whi	ich of the following sta							
	(a)	two acute angles can	be complementary to	each	other				
	(b)								
	(c)	two right angles can	be complementary to e	each o	other				
	(d)	one obtuse angle and	l one acute angle can b	e coi	mplementary to e	ach o	ther		
22.	The	two angles $(2n+10)$	$^{\circ}$ and $(3n-20)^{\circ}$ are	supp	lementary, then w	vhat is	s the value of n ?		
	(a)	30	(b) 32	(c)	38	(d)	36		

23.	Which of the following sta	atement is true?		
	(a) two adjacent angles	can not be supplement	tary	
	(b) two adjacent angles	can be complementary	y	
	(c) an acute angle can n	ot be adjacent to an ob	otuse angle	
	(d) two right angles can	not be adjacent angle		
24.	The teacher tells the class marks plus 7. If the higher	•		ent in her class is twice the lowest the problem.
	(a) $2(x+7)=87$	(b) $2(x-7)=87$	(c) $2x+7=87$	(d) $2x-7=87$
25.	If $A:B=2:3$ and $B:C=4:5$	5 then C:A is equal to		
	(a) 15:8	(b) 12:10	(c) 8:5	(d) 8:15
26.	If $\frac{1}{3}$ of the students in a c	class are Hindu, what p	percent of the students	s are non-Hindu?
	(a) $33\frac{1}{3}\%$	(b) $66\frac{1}{3}\%$	(c) $66\frac{2}{3}\%$	(d) $33\frac{2}{3}\%$
27.	If apples are bought at the 20%?	erate of 30 for a rupee,	, how many apples mu	st be sold for a rupee so as to gain
	(a) 28	(b) 25	(c) 20	(d) 22
28.	Which of the following disions are $5m$ by $3m$?	mensions of a rectang	le have the same perin	neter as a rectangle whose dimen-
	(a) $10m \text{ by } 8m$	(b) $7m$ by $1m$	(c) 6 <i>m</i> by 4 <i>m</i>	(d) 8 <i>m</i> by 2 <i>m</i>
29.	If 8% of $x = 4\%$ of y , the	en 20% of x is		
	(a) $10\% \text{ of } y$	(b) $16\% \text{ of } y$	(c) $80\% \text{ of } y$	(d) none of the above
30.	How much money will yo	ou invest to get an inter	rest of Rs. 75 in 3 years	s at the rate of 5% simple interest?
	(a) Rs. 750	(b) Rs. 600	(c) Rs. 500	(d) Rs. 450
31.	In how many years, a sun	n of money doubled its	self at the rate of 10%	per annum on simple interest?
	(a) 10 years	(b) 15 years	(c) 20 years	(d) 25 years
32.	If $a \times b > c \times d$ where a ,	b, c and d are all position	ive integers, then	
	(a) $\frac{a}{b} > \frac{c}{d}$	(b) $\frac{a}{c} > \frac{b}{d}$	(c) $\frac{a}{c} > \frac{d}{b}$	(d) $\frac{a}{b} > \frac{d}{c}$

	(a) three sides are give	en							
	(b) two sides and ang	b) two sides and angle between them are given							
	(c) two angles and one side are given								
	(d) the hypotenuse an	d a leg in the case of a r	ight angled triangle are	e given					
34.	A rectangle, a parallelo greatest area?	gram, a square and a tr	iangle has same perim	eter, then which figure will posses					
	(a) triangle	(b) square	(c) parallelogram	(d) rectangle					
35.	The perimeter of a sem	i circle is 36cm. What i	s the diameter of the c	ircle?					
	(a) 28 <i>cm</i>	(b) 14 <i>cm</i>	(c) 7 <i>cm</i>	(d) 12 <i>cm</i>					
36.	The ratio of 15 days to	72 hours is							
	(a) 5:24	(b) 3:1	(c) 4:3	(d) 5:1					
37.	A regular hexagon is in	cribed in a circle of radi	ius r cm . What is the po	erimeter of the regular hexagon?					
	(a) 3 <i>r</i>	(b) 6 <i>r</i>	(d) 5r	(d) 9 <i>r</i>					
38.	A dukandar uses a 900	gm weight for measuring	ng a kilogram. His gair	per cent is					
	(a) 9	(b) 10	(c) 11	(d) $11\frac{1}{9}$					
39.	If <i>a</i> , <i>b</i> , <i>c</i> , <i>d</i> , <i>e</i> are five co	onsecutive odd number	rs, their average is						
	(a) $5(a+4)$	(b) $5(a+b+c+a)$	(l+e)						
	(c) $a+4$	(d) none of the abo	ove						
40.	What will be 80 per cer	nt of a number whose 2	200 percent is 90 ?						
	(a) 144	(b) 72	(c) 36	(d) 45					
41.	Additive inverse of a –	<i>b</i> is							
	(a) $a+b$	(b) $b-a$	(c) $-a-b$	(d) none of the above					
42.	The 20th number of the	patern:							
	7,3,-1,-5,-9,	is							
	(a) -69	(b) –75	(c) -51	(d) none of the above					

Which of the following conditions a triangle can not be drawn directly?

43.		orrect answers. Mira g		ry correct answers and _2 marks ive incorrect answer out of seven
	(a) 3	(b) 0	(c) 7	(d) 1
44.	Which integer is the identi	y under addition		
	(a) 1	(b) -1	(c) 0	(d) number itself
45.	Tomthil studies for $5\frac{2}{3}$ has much time does he spend		$\frac{4}{5}$ hrs for his time for	Mathematics and Science. How
	(a) $2\frac{13}{15}$ hrs	(b) $3\frac{12}{13}$ hrs	(c) $2\frac{12}{15}$ hrs	(d) $3\frac{2}{9}$ hrs
46.	What is the correct expa	nsion form of 253.41	7 ?	
	(a) $2 \times 100 + 5 \times 100 + 3$	$\times 100 + 4 \times \frac{1}{100} + 1 \times \frac{1}{1}$	$\frac{1}{000} + \frac{7}{10000}$	
	(b) $2 \times 100 + 5 \times 10 + 3 \times 10 = 3 \times 1$	$1+4\times\frac{1}{10}+1\times\frac{1}{100}+7$	$7 \times \frac{1}{1000}$	
	(c) $2 \times 100 + 5 \times 10 + 3 \times$	$1 + 4 \times 1 + 1 \times 10 + 7 \times 1$	00	
	(d) $2 \times 1000 + 5 \times 100 + 3$	$\times 10 + 4 \times \frac{1}{10} + 1 \times \frac{1}{100}$	$+7 \times \frac{1}{1000}$	
47.	In the 4 corners of a squeach. Then totally how n		•	of each ball you can see 3 balls

(c) 4

(b) $\frac{x}{4} + 2 = 3$ (c) $\frac{x}{2} - 4 = 3$ (d) $\frac{x}{2} + 4 = 3$

(a) 132 (b) 198 (c) 164

(b) 12

50. A clock takes 6 seconds to strike 4 O'clock. Then how much time it will take to strike 8 O'clock?

"One fourth of n is 3 more than 2". The simple equation of the above statement is

(a) 12 sec.

(a) 16

(a) $\frac{x}{4} - 2 = 3$

48.

- (b) 14 sec.
- (c) 16 sec.
- (d) 24 sec.

(d) 66

(d) none of the above

Regd. No. : 3/SR/TH/1999

Class-X (Science) F.M.: 100 Time: 1hrs.

Instru	uctions :
*	There are 50 questions with four alternatives of which one is the correct/most appropriate answer.

	Each question carry 2 marks.	v		•		
*	The correct/most appropriate ch				th a b	oall point pen
*	only, by darkening the circle. Answer once marked cannot be changed. If any candidate is found using unfair means of any kind, he or she shall be expelled from the test without any prior warning. Using any calculator/mobile phone/smart watch etc. is strictly prohibited in the exam hall.					
*	Extra sheet will be provided on a	demand.				
*	The decision of the Assn. with redate.	gard to the conduct of	exam	shall be final & fin	nding	to the candi-
1.	Which of the following has large	est atomic size ?				
	(a) Ne	(b) Na	(c)	Li	(d)	F
2.	An atom of an element has five	valence electrons. The	most	common valency of	of this	element is
	(a) 1	(b) 2	(c)	3	(d)	4
3.	Which of the following will disp	lace hydrogen from an	acid	?		
	(a) Pb	(b) Lu	(c)	Hg	(d)	Au
4.	The oxide of which of the follow	ving will be amphoteric	?			
	(a) P	(b) S	(c)	Si	(d)	Mg
5.	The electronic configuration of a table ?	an element is 2, 8, 18, 2	. It b	elongs to which per	riod o	f the periodic
	(a) 2	(b) 3	(c)	4	(d)	none
6.	The total no. of elements that ca	an be accommodated in	the 1	modern periodic ta	ble is	
	(a) 120	(b) 103	(c)	119	(d)	118
7.	In the NaCl cyrstal, each chlorid	le ion is immediately su	ırrou	nded by		
	(a) 6-chloride ions	(b) 6-sodium ions				
	(c) 4-chloride ions	(d) 4-sodium ions				
8.	$MnO_2 + 4HCl \rightarrow MnCl_2 + 2H_2O$	$O + Cl_2$				
	In the above reaction identify th	e substance being oxid	ised.			
	(a) MnCL ₂	(b) HCl	(c)	Cl ₂	(d)	H_2O

9.	What happens when lead nitrate	reacts with potassium	iodide?					
	(a) They will not react							
	(b) Yellow ppt of lead iodide and potassium nitrate (aq) will be produced							
	(c) H ₂ will be liberated							
	(d) None of the above							
10.	What type of reaction take place	when electricity is pas	ssed through pure wate	er				
	(a) decomposition	(b) displacement						
	(c) combination	(d) double displacem	nent					
11.	Select the oxidising agent for the	e following reaction:	$H_2S + I_2 \rightarrow 2HI + S$					
	(a) I ₂	(b) H ₂ S	(c) HI	(d) S				
12.	Fats and oils possess an unpleasa	ant smell when exposed	d to air for a long time.	This is due to				
	(a) corrosion	(b) rancidity	(c) oxidation	(d) both (b) & (c)				
13.	$\text{Fe} + \text{CuSO}_4 \rightarrow \text{FeSO}_4 + \text{Cu. Th}$	e given reaction is an e	example of					
	(a) combination reaction	(b) displacement rea	action					
	(c) Redox reaction	(d) both displaceme	nt & redox reaction					
14.	Which of the following reaction	will not take place						
	(a) $Zn + CuSO_4 \rightarrow ZnSO_4 + Co$	u	(b) $2KBr + Cl_2 \rightarrow l$	$KCl + Br_2$				
	(c) $Zn + MgSO_4 \rightarrow ZnSO_4 + M$	g	(d) $Mg + FeSO_4 \rightarrow$	$MgSO_4 + Fe$				
15.	In the reaction $Hg_2Cl_2 + Cl_2 \rightarrow 2$	2HgCL ₂ the substance	being reduced is					
	(a) Hg_2Cl_2	(b) Cl ₂	(c) HgCl ₂	(d) none				
16.	Cations are formed by atoms of o	elements with valence	electrons					
	(a) less than 8	(b) more than 4	(c) less than 4	(d) equal to 4				
17.	Hydrogen is placed in the group of the periodic table along with Alkali metals because of the fact that							
	(a) it has no valence electron	(b) it sometimes beha	ave like metals					
	(c) it is a non metal	(d) none of the abov	e					
18.	Which of the following is not a g	good conductor of elec	tricity?					
	(a) Hg	(b) NaCl(aq)						
	(c) KCl (fused state)	(d) CuSO ₄ (solid)						
19.	In which of the following a coord	dinate bond is present						
	(a) H ₃ O ⁺	(b) NH ₄ ⁺	(c) NH ₄ Cl	(d) all the above				

Class-X (Science)

20.	Which of the following do not li solution?	berate hydrogen gas on	reaction with aqueous	s sodium hydroxide
	(a) Zn	(b) Al	(c) Sn	(d) none of the above
21.	All acids contain H-atom, which	of the following comp	ounds nullify the above	e statement ?
	(a) H_3PO_4	(b) H ₂ CO ₃	(c) NH ₄ OH	(d) CH ₃ COOH
22.	Generally aqueous solutions of a	acid salts		
	(a) turns red litmus blue	(b) reacts with more	acids	
	(c) reacts with more bases	(d) all the above		
23.	Which of the following metal ox	ide do not dissolve in v	vater?	
	(a) K_2O	(b) Na ₂ O	(c) CaO	(d) ZnO
24.	Which of the following metal do	not react with cold wa	iter?	
	(a) Na	(b) Ca	(c) Mg	(d) K
25.	Cycloalkanes have the same gen	eral formula as those of	f	
	(a) alkanes	(b) alkenes	(c) alkynes	(d) alcohols
26.	Conversion of ethyl alcohol to a	cetic acid is		
	(a) a reduction process	(b) an oxidation proc	cess	
	(c) done with con. H ₂ SO ₄	(d) done with Cl ₂ in t	the presence of light	
27.	IUPAC name of CH ₃ COOC ₂ H ₅ i	s		
	(a) Ethyl methyl ether	(b) Ethyl methyl este	er	
	(c) Ethylacetate	(d) Ethyl ethanoate		
28.	$CuSO_4$ (hydrated) \xrightarrow{heat} CuS blue	$O_4(anhydrous) \xrightarrow{?} O_4(anhydrous)$	$CuSO_4(hydrated)$	
	In the above sequence of proces	s I and II, the condition	n for the second step is	
	(a) heat	(b) light		
	(c) moisture	(d) electric current		
29.	Which of the following can prod	uce a real image for an	y position of the object	t ?
	(a) concave mirror	(b) plane mirror		
	(c) concave lens	(d) convex mirror		
30.	An object at a distance of 50cm length of the mirror is	from a concave mirror	gets its image at the san	me point. The focal
	(a) $-30cm$	(b) 30 <i>cm</i>	(c) -25 <i>cm</i>	(d) +25 <i>cm</i>

31.	An object at a distance of $+15cm$ is slowly moved towards the pole of a convex mirror. The image will be						
	(a) shortened and real	(b) enlarged and rea	ıl				
	(c) enlarged and virtual	(d) diminished and v	virtual				
32.	As light travels from a rarer to a	a denser medium it will	have				
	(a) increased velocity	(b) decreased veloci	ity				
	(c) decreased wavelength	(d) both (b) and (c)					
33.	You are given three media A, I Light will travel fastest in	B and C having refracti	ive index 1.33, 1.65 ar	nd 1.46 respectively.			
	(a) A	(b) B	(c) C	(d) equal in all media			
34.	A wire of length "l" and resistive be	vity ρ is cut into three	equal parts. The resisti	ivity of each part will			
	(a) <i>ρ</i>	(b) $\frac{\rho}{3}$	(c) 3 ρ	(d) not defined			
35.	4000 joule of work is done when of 50Ω . The current passing the	=	is transfered between t	two points of resistor			
	(a) 8A	(b) 4A	(c) 2A	(d) 16 A			
36.	The pattern of magnetic field pr	roduced by a straight co	urrent carrying conduc	tor is			
	(a) in the direction opposite to	the current	(b) in the direction	parallel to the wire			
	(c) circular around the wire		(d) in the same dire	ection of the current			
37.	A soft iron bar is introduced ins noid will	ide a current carrying s	olenoid. The magnetic	field inside the sole-			
	(a) decrease	(b) increase	(c) remain same	(d) become zero			
38.	Absorption of water from the so	oil by roots of plants ta	ke place through				
	(a) diffusion	(b) transpiration	(c) osmosis	(d) all the above			
39.	What are the products obtained	in the anaerobic respir	ration in plants?				
	(a) CO_2 + energy + water	(b) $C_2H_5OH + CO_2$	+ energy				
	(c) Lactic acid + energy	(d) Pyruvate					
40.	Dormancy in seeds and buds of	plants is due to					
	(a) Auxin	(b) Gibberellin					
	(c) Cytokinin	(d) Abscisic acid					

41.	Which nerves transmit impulses	from the central nervo	us system to the muscl	le cells?
	(a) sensory nerves	(b) motor nerves		
	(c) relay nerves	(d) cranial nerves		
42.	The hormone that is used to keep	p flowers fresh is		
	(a) cytokinin	(b) gibberellins	(c) auxin	(d) abscisic acid
43.	Which reproductive method give	es a species greater pos	ssibility for evolution?	,
	(a) binary fission	(b) budding	(c) fertilisation	(d) regeneration
44.	Vegetatively propagated plants			
	(a) do not bear fruits	(b) do not flower		
	(c) are genetically similar	(d) are genetically d	ifferent	
45.	A cross between a tall pea plant tall plants because	(TT) and a short pea p	plant (tt) resulted in pro	ogenies that were all
	(a) tallness is the recessive trait	İ	(b) height is not con	ntrolled by genes
	(c) tallness is the dominant trait	t	(d) shortness is the	dominant trait
46.	What does the progeny of a pure look like?	e tall plant with round s	seeds and a short plant	with wrinkled seeds
	(a) all tall plants with round see	eds		
	(b) all short plants with wrinkle	ed seeds		
	(c) all tall with wrinkled seeds			
	(d) all short with wrinkled seed	S		
47.	The sex of a child is determined	by		
	(a) the male gamete	(b) the female ga	amete	
	(c) both male and female gamet	te (d) God		
48.	Phenotypic ratio of 9:3:3:1 is a r	result of a		
	(a) Monohybred cross	(b) test cross		
	(c) F ₁ generation in dihybrid cro	oss (d) F ₂ generation	in dihybrid cross	
49.	The resistance of a conductor do	pes not depend on its,		
	(a) length	(b) temperature	(c) thickness	(d) shape
50.	$C(s) + O_2(g) \rightarrow CO_2(g)$	The given reaction is	not a	
	(a) Displacement reaction	(b) Eothermic reacti	on	
	(c) Redox reaction	(d) Combination rea	ction	

21st STATE LEVEL COMPETITION - 2022 ORGD. BY: THE UNITED DEVELOPMENT ASSN. (UDA), KHANGABOK

H.Q. KHANGABOK, THOUBAL (MANIPUR) Regd. No. : 3/SR/TH/1999

Class-VIII (Maths.)

		Class-VIII (Ma	<u>ths.)</u>]	Time: 1½hrs.
Inst	ructions :					
*	There are 50 questions with j		ich one is	the correct/most	approp	riate answer.
*	Each question carry 2 marks		uland in th		si≠la ∝ la	all point por
•	The correct/most appropriat only, by darkening the circle				vith a b	ali point pen
*	If any candidate is found usi without any prior warning. U ited in the exam hall.	ng unfair means of any	kind, he	or she shall be e	-	•
*	Extra sheet will be provided	on demand.				
*	The decision of the Assn. wit date.		t of exam	shall be final & j	finding	to the candi-
1.	Which of the following is eq	to $1.\overline{27}$				
	19	(b) $\frac{12}{11}$	()	15 11	(1)	14
	(a) $\frac{19}{11}$	(b) $\frac{11}{11}$	(c)	11	(d)	$\frac{14}{11}$
2.	A diagonal and a side of a rh are	ombus are of equal len	gths. The	measure of the ar	ngles of	f the rhombus
	(a) 60°,120°,60°,120°		(b)	85°,95°,85°,85	0	
	(c) 50°,130°,50°,130°		(d)	45°,135°,45°,1	35°	
3.	$\sqrt{0.9 \times 0.09 \times x} = 0.9 \times 0.09 \times 0.$	\sqrt{z} . Then, the value of	of $\frac{x}{z}$ is			
	(a) 0.091	(b) 0.810	(c)	0.081	(d)	8.09
4.	If you substract a number <i>x</i> Then, the result is	from 17 times that num	mber, and	then take the cu	be of tl	ne difference.
	(a) $1728x^3$	(b) $4913x^3$	(c)	$4096x^{3}$	(d)	$5832x^{3}$
5.	The ratio of the number of boots and girls be 20% and	•		-	crease	in the number
	(a) 8:9	(b) 17:18				
	(c) 21:22	(d) can't be dete	ermined			
6	Four fifth of a number is mo	re than three fourth of	the numb	er by 4. The num	her ic	

(a) 20

(b) 60

(c) 80

(d) 100

F.M.: 100

	structed?						
	(a) square	(b) ta	rapezium	(c)	rhombus	(d)	rectangle
8.	If $(x-5)$ notebooks cost Rs. (x^2)	-13+	40), then the cost	ofo	ne notebook is		
	(a) $(x-1)$	(b) ((x-2)	(c)	(x-6)	(d)	(x-8)
9.	Which of the following will not form	·	,		,	()	,
	(a) 1 square and 4 triangles	-	2 triangles and 3 re	etang	des		
	(c) 3 triangles		pentagon and 5 tr	_			
10.	If the rainfall on a certain day was 5	` /		Ŭ		e field	d on that day?
	(a) 5000		•		450000		one of these
11.	If $p^{q^r} = 2^{64}$, then the maximum po	ossible	value of $p+q+r$	~ wh	ere <i>p, q, r</i> are natur	al nun	nbers is
	(a) 9	(b) 1		(c)		(d)	67
12.	Double bar graphs display	()		` '		(u)	07
12.	(a) four	s (b) tl		(c)		(d)	no
13.		` /		()		(u)	
13.	How many prime numbers are of the					(1)	0
1.4	(a) 6	(b) 8		(c)		(d)	9
14.	The exterior angle of a regular polysides	iygon i	s one third of its in	iterio	r angie. The, polyg	on na	S
	(a) 10	(b) 8	3	(c)	9	(d)	13
15.	To Construct a convex quadrilate	eral, w	hich of the follow	ing	cases is incorrect?	•	
	(a) when the length of three side	es and	the two diagonal	s are	given		
	(b) when the length of four sides	s and	one angle is given	l			
	(c) when the length of two sides	s and t	two included angl	es ar	e given		
	(d) none						
16.	The square root of least six digit	numb	er which is a perfe	ect s	quare is		
	(a) 315	(b) 3	316	(c)	317	(d)	318
17.	If $\sqrt[3]{3\left(\sqrt[3]{x} - \frac{1}{\sqrt[3]{x}}\right)} = 2$, then $\sqrt[3]{x} + \frac{3}{\sqrt[3]{x}} = 2$	$+\frac{1}{\sqrt[3]{x}}=$	=				
	(a) $\frac{10}{3}$	(b) -	$\frac{-10}{3}$	(c)	3 15	(d) b	oth (a) and (b)

If $AB \parallel DC$, AB = 7cm, BC = 6cm, AD = 6.5cm and $\angle B = 70^{\circ}$, then which figure can be con-

19.	If $x + y + z = 0$, then $3 \left[\frac{x^2}{yz} + \frac{y^2}{zx} \right]$	$+\frac{z^2}{xy}$] is equal to		
	(a) $(xyz)^2$	(b) $x^2 + y^2 + z^2$	(c) 9	(d) 3
20.	Number of faces, vertices and edg	ges of a square pyramid a	re respectively	
	(a) 4, 6, 12	(b) 7, 5, 10	(c) 5, 5, 8	(d) 4, 4, 6
21.	Which of the following is not a three	ee dimensional shape?		
	(a) square prism	(b) sphere	(c) triangular pyramid	(d) circle
22.	If the area of the three adjacent face	s of a room is p, q, r respe	ctively. the, volume of air	in the room is
	(a) \sqrt{pqr}	(b) $2\sqrt{pqr}$	(c) $3\sqrt{pqr}$	(d) $4\sqrt{pqr}$
23.	Number of prime factors in (216)	$(2500)^{\frac{3}{5}} \times (2500)^{\frac{2}{5}} \times (300)^{\frac{1}{5}}$	is	
	(a) 6	(b) 9	(c) 8	(d) none of these
24.	If $(6x)^6 = 6^{2^3}$, then the value of x	is,		
	(a) 1	(b) $\sqrt{6}$	(c) $\sqrt[3]{6}$	(d) ⁶ √6
25.	A man's salary is increased by 10° reduced by x° , then the value of x°		alary back to the original	amount, it must be
	(a) $11\frac{1}{9}\%$	(b) $1\frac{11}{9}\%$	(c) $11\frac{9}{11}\%$	(d) $9\frac{1}{11}\%$
26.	A litre of water was evaporated fro remaining solution is	om 8L of salt solution cor	ntaining 8% salt. The perc	centage of salt in the
	(a) $7\frac{1}{7}\%$	(b) $7\frac{1}{9}\%$	(c) $9\frac{1}{7}\%$	(d) $7\frac{1}{3}\%$
27.	Atul is playing in a playground whithe playground are 80m and 60m l	<u> </u>		hat the diagonals of
	(a) rectangle	(b) rhombus	(c) kite	(d) square
28.	A shopkeeper sold a TV set for Rs discount is allowed, then his gain p	-	of a discount of 8%) and	gained 19.6%. If no
	(a) 25%	(b) 26.4%	(c) 24.8%	(d) 30%
		3		

If a number "x is 10% less than another number "y" and y is 10% more than 125, then "x" is equal to

(c) 140.55

(d) 150

(b) 143

18.

(a)123.75

29.	An example of property tax is			
	(a) wealth tax	(b) income tax	(c) sales tax	(d) excise
30.	The measure of each angle of a p	oolygon is 160°. The nu	umber of its sides is	
	(a) 15	(b) 18	(c) 20	(d) 30
31.	A cubical water tank measures 3	feet sides. Then, its sur	face area is	
	(a) 9ft^2	(b) 50ft^2	(c) 52 ft^2	(d) 54 ft^2
32.	In a parallelogram PQRS, X is the ratio	ne mid point of PS and Y	is the mid point of QR	R. Then, Y divides QS in
	(a) 1:4	(b) 1:1	(c) 1:2	(d) 1:3
33.	The multiplicative inverse of $\left(-\frac{1}{2}\right)$	$(\frac{5}{9})^{99}$ is		
	(a) $\left(\frac{-5}{9}\right)$	(b) $\left(\frac{-5}{9}\right)^{99}$	$(c) \left(\frac{-9}{-5}\right)^{99}$	(d) $\left(\frac{-9}{5}\right)^{99}$
34.	Which of the following ratio is in	ascending order?		
	(a) 7:9, 11:12, 17:19, 21;25	(b) 4:7, 9:16, 11:20), 13:17	
	(c) 3:4, 7:9, 15:19, 4:5	(d) 2:3, 4:5, 7:8, 8:	11	
35.	The value of $\frac{2^{2001} + 2^{1999}}{2^{2000} - 2^{1998}}$ is			
	(a) 2	(b) $\frac{10}{3}$	(c) $2^{1000} + 1$	(d) 10
36.	If $a^{\frac{1}{2}} + b^{\frac{1}{2}} - c^{\frac{1}{2}} = 0$, then the va	lue of $(a+b-c)^2$ is		
	(a) 2 <i>ab</i>	(b) 2 <i>bc</i>	(c) 4 <i>ab</i>	(d) 4ac
37.	What should be the rate of interest	est per annum if interest	is calculated quaterly?	
	(a) reduced to half	(b) reduced to one	fourth	
	(c) is doubled	(d) becomes four ti	mes	
38.	A fruitseller buys lemons at 2 for	r a rupee and sells them	at 5 for three rupees. H	lis gain percent is
	(a) 10%	(b) 20%	(c) 30%	(d) 40%
39.	If a positive integer is multiplied integer is	d by 4, then the product	t is equal to the cube of	f that integer. Then, the
	(a) 16	(b) 54	(c) 2	(d) 128

	(a) 0		(b) 1	(c)	1	(d)	3
41.	PQRS	is a square, PR and SQ inter	rsect at O. The, \angle	POQ is a	ı		
	(a) Ri	ight angle	(b) straight line	(c)	reflex angle	(d) co	omplete angle
42.	The tw	To parts of 34 such that $\left(\frac{4}{7}\right)^t$	of one part is equ	ual to $\left(\frac{2}{5}\right)$	of the other are,		
	(a) 16	5, 18	(b) 14, 20	(c)	15, 19	(d) n	one of these
43.	The rat	io of radii of two cylinders is	$1:\sqrt{3}$ and heights	s are in the	e ratio 2:3. The ratio	ofth	eir volumes is
	(a) 1:9	9	(b) 2:9	(c)	4:9	(d)	5:9
44.	If a pol	yhedron has 12 vertices and	8 faces, then the n	umber of	edges in the polyhe	dron i	s
	(a) 12	2	(b) 14	(c)	16	(d)	18
45.		nade a cuboid of plasticeine, nany minimum such cuboids	-	_		m, 25	<i>cm</i> and 50 <i>cm</i> .
	(a) 4		(b) 20	(c)	12	(d)	25
46.	The tot	tal surface area of a cubical w	ooden block who	se length	of the diagonal is $$	27 m	etre is
	(a) 48	$8m^2$	(b) $36m^2$	(c)	$54m^2$	(d)	$32m^2$
47.		of money amounts to Rs. 11 nually. Then, the sum is	910.16 in $1\frac{1}{2}$ year	rs at 12%	per annum interest	being	compounded
	(a) Rs	s. 10,000	(b) Rs. 12,000	(c)	Rs. 11,500	(d)	Rs. 10,050
48.	What n	must be substracted from x^4	$+2x^2-3x+7$ to	get $x^3 + x$	$x^2 + x - 1$?		
	(a) x^4	$x^4 - x^3 + x^2 - 4x + 8$		(b)	$x^3 + x^2 - 4x + 8$		
	(c) x^4	$x^4 - x^3 + x^2 + 4x - 8$		(d)	none of these		
49.	•	ent sides of a rectangle are in of the diagonal is	the ratio 5:12, if t	he perime	eter of the rectangle	is 34	cm, then, the
	(a) 13	Вст	(b) 12 <i>cm</i>	(c)	25 <i>cm</i>	(d)	5cm
50.	If $\frac{1}{3.61}$	$\frac{1}{8}$ = 0.2764, then the value of	of $\frac{1}{0.0003618}$ is e	qual to			
	(a) 27	76.4	(b) 2764	(c)	27.64	(d)	2.764

If the eight digit number 28357a59 is exactly divisible by 111, then the least possible value of a is

Regd. No. : 3/SR/TH/1999

F.M.: 100 Class-IX (Maths.) Time: 1½hrs.

Instructions:

There are 50 questions with four alternatives of which one is the correct/most appropriate answer. Each question carry 2 marks.

The correct/most appropriate choice should be marked in the answer sheet with a ball point pen only, by darkening the circle. Answer once marked cannot be changed.

If any candidate is found using unfair means of any kind, he or she shall be expelled from the test without any prior warning. Using any calculator/mobile phone/smart watch etc. is strictly prohibited in the exam hall.

Extra sheet will be provided on demand.

The decision of the Assn. with regard to the conduct of exam shall be final & finding to the candidate.

 $\left[\pi = \frac{22}{7} \text{ whenever necessary}\right]$

A number lying between 10% and 5% of a given number x is 1.

(a) $15\% \text{ of } x$	(b) $\frac{2}{15}$ of x	(c) $\frac{1}{x}$ of x	(d) $\frac{1}{17}$ of:
(a) 13% 01x	(b) $\frac{15}{15}$ or x	(c) $\frac{1}{15}$ of x	(a) $\frac{17}{17}$ or:

2. Ratio of a circumference of a circle to its diameter is

ne of these
r

 $\sqrt{27-10\sqrt{2}} =$ 3. (b) $5+\sqrt{2}$ (c) $7-\sqrt{2}$ (d) $9-2\sqrt{2}$ (a) $5-\sqrt{2}$

If $\sqrt{3} = 1.73$ then $\sqrt{147}$ is (a) 21.11 (b) 11.21 (c) 12.11 (d) 21.13

5. The polynomial $x^2 - 5x + 6$ represent

(a) area of a square of side (x-2) units

(b) area of a rectangle of side (x-2) and (x-3) units

(c) area of a triangle whose attitude is (x-2) and base is (x-3) units

(d) none of these

 $(p-1)x^5 + 3x^2 + qx + 2$ is a monic polynomial then value of p^2 is 6.

(c) 2 (a) 0 (b) 1 (d) 4 Degree of the polynomial $ax^7 + bx^{m-2} + x^3 + cx + d$ is 8 then the value of m is 7.

(a) 2 (b) 6 (c) 8 (d) 10

Class-IX (Maths.)

8.	Zero of $x^2 - kx + 6$ is 2 then	the va	alue of k is					
	(a) _2	(b)	2	(c)	5	(d)	-5	
9.	Which of the following is a fa	actor	of $x^4 + x^2 + 1$					
	(a) $x^2 + x + 1$	(b)	x^2-x-1	(c)	$x^2 + x - 1$	(d)	<i>x</i> +1	
10.	The common zero of three po	olyno	mial is -2 then their	HCF	has factor			
	(a) $(x-2)$	(b)	$\left(x^2-2x+1\right)$	(c)	(x+2)	(d)	$\left(x^2+2x+1\right)$	
11.	The point (a,b) lies on Y-axi	is the	n					
	(a) $a = 0$	(b)	b = 0	(c)	a < 0	(d)	b > 0	
12.	If the co-ordinates of the poin	nt (2,	-6) are interchanged	then	it will lie in			
	(a) first quadrant	(b)	second quadrant	(c)	third quadrant	(d)	fourth quadrant	
13.	The difference of the distance is	es of tl	ne point $(-3,-2)$ from	n X-a	axis and the poin	t (5,	−2) from Y-axis	
	(a) 8	(b)	0	(c)	3	(d)	1	
14.	Distance between the points $(2,1)$ and $(-1,x)$ is $3\sqrt{2}$ units then value of x is							
	(a) -2	(b)			-4	(d)	3	
15.	The perimeter of the triangle formed by joining the points $(1,2)$, $(1,6)$ and $(4,2)$ is							
	(a) 10 units		13 units		12 units		8 units	
16.	If $(-2,1)$ is a solution of the	equat	$\sin 3x + ky = 6 \text{ then }$	whic	h one of them is	not	a solution of it?	
	(a) $(-6,2)$	(b)	(3,2)	(c)	(2,0)	(d)	(10, -2)	
17.	The number of linear equations in two variables having a solution $(1,3)$ is							
	(a) only one equation			(b)	two equations			
	(c) Infinite number of equation	ion		(d)	none of these			
18.	The graph of $x = C$ is a straig	ght li	ne parallel to Y-axis, t	then				
	(a) it is a linear equation in o	one v	ariable	(b)	it is a linear equ	ation	n in two variables	
	(c) it is a constant			` ′	it is a linear po	•		
19.	Equation of a straight line lying	ing on	both 1st and 3rd quad	rant	and passing thro	ugh	origin is	
	·		$x = -k^2 y$					
	(c) $x + y = k$	(d)	$x = k^2 y$ (for any non	n zer	o real k)			
20.	Which of the following is an Euclid's postulate?							
	(a) Every straight line of finite length has one and only one point of bisection							
	(b) Every angle has one and	•						
	(c) All right angles are equa							
	(d) If equals are added to eq	quals,	the sum are equal					

21.	C is a point on the line segm	ent A	B. Then $AC + CB = A$	<i>4B</i> . T	This is because of	f the	
	(a) Euclid's Axiom 9			(b)	Euclid's Postul	late 1	
	(c) Theorem deducted from	n the	Euclid's Postulate	(d)	none of these		
22.	Angle between the bisectors of the angles forming a linear pair of angle is						
	(a) 70°	(b)	80°	(c)	90°	(d)	45°
23.	The angles of a triangle are	in the	ratio 5:3:10. Then the	e mea	sure of the grea	itest	acute angle is
	(a) 100°	(b)	50°	(c)	80°	(d)	60°
24.	One of the angles of a trian measure of the smallest angle		s A. If the difference	of th	e other two ang	gles	is 30°, then the
	(a) $65^{\circ} - \frac{A}{2}$	(b)	80°-2A	(c)	$75^{\circ} - \frac{A}{2}$	(d)	90°-2A
25.	A polygon has 8 sides then t	he to	tal sum of all the inter	ior ar	ngles is		
	(a) 1440°	(b)	900°	(c)	1260°	(d)	1080°
26.	Which of the following is no	t a th	eorem				
	(a) SAS congruence	(b)	ASA congruence				
	(c) SSS congruence	(d)	RHS congruence				
27.	If x units be the length of a r	nedia	n of an equilateral tria	ingle	having perimete	r 42	units then
	(a) $x > 14$	(b)	x = 15	(c)	x = 21	(d)	14 > x
28.	If $\angle x$ and $\angle y$ are the exterior then	or an	gles of a $\triangle ABC$ at th	e poii	and C respe	ctive	ely. Also <i>B></i> ZC
	(a) $\angle x > \angle y$	(b)	$\angle x < \angle y$	(c)	$\angle x = \angle y$	(d)	none of these
29.	In $\triangle ABC$, $\angle B > \angle C$ and be	isecto	$r ext{ of } \angle B ext{ and } \angle C ext{ into}$	ersect	each other at P	. The	en
	(a) $BP=PC$	(b)	BP <pc< td=""><td>(c)</td><td>BP>PC</td><td>(d)</td><td>none of these</td></pc<>	(c)	BP>PC	(d)	none of these
30.	In a parallelogram $ABCD$, $AB = 12cm$. Then altitudes corresponding to the sides AB and AD are respectively $8cm$ and $10cm$, then						
	(a) $AD = 9.6cm$	(b)	AD = 15cm	(c)	AD = 6.67cm	(d)	AD = 10.0cm
31.	D, E and F are the mid poin	ts of a	$\triangle ABC$ having area	60 sq	. units, then area	a of _A	∆DEF is
	(a) 20 sq. units	(b)	25 sq. units	(c)	15 sq. units	(d)	30 sq. units
32.	The lengths of two chords o from the centre, then the dis					s at a	distance of 4 <i>cm</i>
	(a) 3 <i>cm</i>	(b)	6 <i>cm</i>	(c)	9 <i>cm</i>	(d)	12 <i>cm</i>
33.	ABCD is a cyclic quadrilater	al who	ose diagonals are AC a	ınd B	D. If $\angle DBC = 8$	0° a	nd $\angle BAC = 30^{\circ}$
	then $\angle BCD$ is						
	(a) 90°	(b)	80°	(c)	70°	(d)	100°
34.	Number of circles that can b	e dra	wn through three non	colli	near points is		
	(a) only one	(b)	only two	(c)	infinite	(d)	0
35.	If the perimeter of an equilar	teral t	riangle is 36 cm then	its ar	ea is		
	(a) $144\sqrt{3}cm^2$	(b)	$12\sqrt{3}cm^2$	(c)	$36\sqrt{3}cm^2$	(d)	$72\sqrt{3}cm^2$

36.	Each side of a Rhombus shape		-	_	_	
			$216 \ m^2$			
37.	Number of solid balls each of r	adius	2 cm that can be made	e by n	nelting a solid sph	nere of lead of radius 1
	m is					
	(a) 1250	` '	125000	` /	125	(d) 115000
38.	The volume of a cube is 7408					(1) 1.60
	(a) $42 cm^2$	(b)	$126 \ cm^2$	(c)	84 <i>cm</i> ²	(d) 168 cm^2
39.	The total cost of white washing	ng fo	ur walls of a room of	lengt	h, breadth and h	eight are $5m, 4m$ and
	3m respectively is Rs. 405. T	hen t	he rate of cost of whi	ite wa	ashing per squar	e metre is
	(a) Rs. 13.40	(b)	Rs. 16.87	(c)	Rs. 10.50	(d) Rs. 7.50
40.	The radius of a is 1.4m long i	oller	is 45cm, then the are	ea it s	weeps in 75 revo	olutions is
	(a) $148 m^2$	(b)	$297 \ m^2$	(c)	$212 \ m^2$	(d) $192 m^2$
41.	The volume of a cone of heigh	ht 24	$1cm$ is $1232cm^3$ then the	the sla	ant height is	
	(a) 24 <i>cm</i>	(b)	25 <i>cm</i>	(c)	34 <i>cm</i>	(d) 35 <i>cm</i>
42.	If the radius of a sphere is do	uble	then the percentage	of vo	olume increased	is
	(a) 100	(b)	50	(c)	7	(d) 5
43.	The radius of the top and bot	tom	of a bucket of slant he	eight	28 <i>cm</i> are 24 <i>cm</i>	and $9cm$. The curved
	surface area of the bucket is					
	(a) $3630cm^2$	(b)	$3750cm^2$	(c)	$2804cm^{2}$	(d) $2904cm^2$
44.	The length of the longest pole	e that	can be placed in a ro	om o	f cube shape wit	th 10m as its length is
	(a) $10\sqrt{3}m$	(b)	$3\sqrt{10}m$	(c)	$20\sqrt{3}m$	(d) $6\sqrt{10}m$
45.	Number of bricks each meas					
45.		uiiiį	$3 23cm \times 11.23cm \times 60$	cm u	iat will be need	cu to build a waii of
	$8m \times 6cm \times 22.5m$ is					(4) =====
4.6	(a) 5600	\ /	60000	(c)	6400	(d) 7200
46.	Which one of the following is	s not	correct?			
			π			$(1)^g$
	(a) $90^{\circ} = 100^{g}$	(b)	$\frac{\pi}{2} = 100^g$	(c)	$15^{\circ} = 9000'$	(d) $1' = \left(\frac{1}{54}\right)^s$
4.57						(-)
47.	The angle subtended at the co					
	(a) $\left(\frac{1}{2}\right)^c$		$(1)^{0}$		$(360)^0$	
	(a) $\left(\frac{1}{2}\right)$	(b)	$\left(\frac{1}{2}\right)$	(c)	$\left(\frac{2}{\pi}\right)$	(d) 2^g
	(2)		(2)		(n)	
	$(2\pi)^c$					
48.	$\left(\frac{2\pi}{15}\right)^c =$					
	(13)					
	$(2\pi)^g$		$(2)^g$		$(90)^0$	$(180)^0$
	(a) $\left(\frac{2\pi}{15}\right)^g =$	(b)	$\left(26\frac{2}{3}\right)^g$	(c)	$\left(\frac{90}{15}\right)^0$	(d) $\left \frac{160}{15} \right $
40	(/		` /		(10)	(13)
49.	9. The angle between the hour hand and minute hand of a clock at 9:30 a.m. is					
					$(7\pi)^c$	
	(a) 105°	(b)	125°	(c)	$\left(\frac{7\pi}{6}\right)^{c}$	(d) 130^g
	-1-0				(0)	
50.	0. If D° , G^{g} and R^{c} are the measures of the same angle in sexagesimal, centesimal and circular system					al and circular system
	then					
	D = 2R	/# ×	G D		G R	(4)
	(a) $\frac{D}{90} = \frac{2R}{\pi}$	(b)	$\frac{G}{100} = \frac{D}{2\pi}$	(c)	$\frac{G}{18} = \frac{R}{10}$	(d) none of these
	, , , , , , , , , , , , , , , , , , ,		- 0 0 - 7		_0 10	
			4			