CHINMAYA VIDYALAYA, TARAPUR

P-201, MIDC Indl. Area, Saravali, Boisar ISO 9001-2008 Certified SCIENCE TALENT SEARCH EXAMINATION



CLASS – IX SAMPLE PAPER

Please fill the following details immediately

Name: ____

Hall Ticket No.:_____

100 Questions *

Time Allowed : 120 Minutes *

- Do not open this question paper until the signal is given.
- Please check the CLASS printed on the cover page and the inside is same when you open the booklet.

General Instructions:

- 1) All questions are compulsory and carry equal marks.
- 2) There is no negative marking.
- There is only one correct answer hence write one choice only.
- 4) Please avoid cutting/overwriting etc.
- 5) Return the answer sheet to the invigilator at the end of the examination.
- The question paper can be retained by the student.

period a] λ	ic wave is b] λ / 2	c] λ ∕ 4	d] 2 λ
2) A long which a] east c] nort	itudinal wave tra direction do the p to west h to south	ovels from east to v particles of air mov b] west to ea d] south to r	west in air. In ve? ast north
3) The ve a] 332r	locity of sound ir ns ⁻¹ b] 330 ms ⁻¹	n vacuum is c] 288 ms ⁻¹	d] 0 ms ⁻¹
4) Resona a] force c] dam	ance is a special c ed vibrations ped vibrations	ase of b] natural vi d] none of th	brations nese
5) Waves a] infra c] sour	used in sonograp ared waves ad waves	ohy are b] microwav d] ultrasonic	/es c waves
6) Flash a thunde becaus a] spee b] spee c] spee sound. d] Nor	nd thunder are p er is heard a few s ed of sound is gre ed of sound is equ d of light is very ne of these	produced simultan seconds after the fl ater than speed of ual to the speed of much greater thar	eously. But the lash is seen. This i light n the speed of
7) A simp	ble pendulum is t Will it go faster o / down ains same	ransferred from th or slower? b] becomes f d] none of th	he earth to the faster hese
a] slow c] rema			

a] 153 º F	b] 102 º F	c] 1	00ºF	d] 113 º F
10) Mercury a] it has u b] it has h c] it has a d] all of th	is used as a ther hiform expansive igh boiling point fairly low freezir e above	momet eness ng poir	ric substance	because
11) Expansic a] the orig b] the rise c] the mate d] all of th	n of a rod depen inal length of the of temperature erial of the temperature e above	ids on e rod erature	Ç	
12) A metal of heated, th a] increase c] neither	disc has a hole in e hole will e in size increase nor deci	it at it rease	s centre. If th b] decrease i d] none	e disc is n size
13) For accur measured a] alcohol b] mercury c] platinur d] thermo	rate scientific wo by thermometers y thermometers n resistance ther electric thermom	rk, tem mome neters	nperatures are	e often
14) What are a] conduct b] conduct c] sublima d]conduct	the three modes tion, convection a tion, sublimation tion, convection ion, convection a	s of trai and rad and rad and ra and sul	nsmission of diation adiation idiation olimation	heat?
15) In winter chair. Why a] metal is b] metal is c] wood is d] none of	r, a metal chair fe y? a good conducto a bad conductor a good conductor the above	els coc or r or	oler to touch t	han a woode

16) In hot climatic conditions, buildings are painted white because a] white paint is cheaper b] it does not fade of c] it does not crack with the change of temperature d] white coating is bad conductor of heat and reflects heat rays falling on it, thus keeping the house cool. 17) When we are sweating, we feel comfortable under a fan because a] the air circulated by the fan is cool b] the air takes away the heat from the body c] the air circulated by the fan quickens the evaporation of sweat d] all of the above 18) The door of a fridge, which is working is left open a] the temperature of the room will fall b] the temperature of the room will rise c] the room temperature will have been maintained within the fridge d] none of these 19) A 1 kilowatt motor pumps out water from a well 10 meters deep. Calculate the quantity of water pumped out per second. a] 10.204g b] 15.302g c] 11.201g d] 16.204g 20) Which of the following equations show the correct relationship between mass, momentum and kinetic energy. a] $P=\sqrt{2}$ mEk b] P = $\sqrt{5mEk}$ c] $P=\sqrt{4mEk}$ d] P = $\sqrt{6mEk}$ 21) When a stone tied to a string is whirled in a circle the work done on it by the string is d] undefined cl zero a] positive b] negative

22) An apple falls towards t	the earth because the earth attract
it. The apple also attracts do we not see the earth rais a] acceleration of the earth	the earth by the same force. Why ising towards the apple. is very large when compared to
b] acceleration of the earth c] acceleration of the earth d] acceleration of the earth apple	n is equal to that of apple. Is neither high nor too low. In is very small compared to that of
23) Where is the value of 'g' generator?a] equator b] at the centre	greater, at the poles or at the e c] poles d] none of these
24) When a body is thrown u a] in the upward direction c] zero	up, the force of gravity is b] in the downward direction d] in the horizontal direction
25) The mass of a body as n as 1.2 Kg and 1.23 Kg. Whi a] 1.2 Kg b] 1.23 Kg	neasured by two students is given ich of these two is more accurate c] none d] both a and b
26) While walking on ice, one slipping. This is because sr a] larger friction c] larger normal force	e should take small steps to avoid maller steps ensure b] smaller friction d] smaller normal force
27) Vehicles are provided wit	th shock absorbers, which obey
a] first law of motion c] third law of motion	b] second law of motion d] all the above
28) A body floats in a liquid ia] Zeroc] less than its weight	if the buoyant force is b] greater than its weight d] equal to its weight
29) Pascal is a unit of a] pressure c] linear momentum	b] force d] energy

a] straight c] arc of a (line circle	b] parabola d] elliptical		
	Chem	nistry [30]		
31) Name the a] acetylen	e gas used in the a e b] ethylene	artificial ripening c] ethane	g of fruits d] propane	
32) The subs	tance used for the	e decolorisation	of sugar solutio	
a] wood charcoal c] sugar charcoal		b] animal char d] activated ch	b] animal charcoal d] activated charcoal	
33) Write dov	wn the formula of	f the compound	nickel	
bisulphate a] NiHSO4	b] Ni₂HSO4	c] Ni ₂ SO ₄	d] Ni(HSO4)	
34) Blue gas isa] carbureted water gasc] water gas		b] producer gas d] semi-water gas		
35) 'V' shape a] BeCl ₂	d molecule is b]NH3	c] H ₂ O	d] CO ₂	
36) Which ga a] coal gas	s is used in the m b] producer gas	anufacture of ar s c] fuel gas	nmonia? d] water gas	
37) What is C a] produce c] compres	NG? er gas ssed natural gas	b] water gas d] none		
38) Charcoal a] it is less b] it is pur c] it contai d] It is hea	floats on water be dense than water e form of carbon. ns large quantity vier than water.	ecause of air absorbed i	n its pores.	
39) Water da	s is a mixture of			

40) An excelle	ent solvent for bo	oth ionic and coval	lent compound
is a] water	b] liquid NH ₃	c] CH₃COOH	d]CCl4
41) Carbon te a] Water is c] both are	trachloride is ins polar b] Ca polar d] bot	oluble in water be rbon tetrachloride th are non-polar	ecause e is non-polar
42) Linear mc a] CO ₂	blecule among the b] NO2	e following is c] SO ₂	d] SiO ₂
43) Tetrahedr shown by	al nature of bonc	ling by carbon atc	om was first
a] Kelvin	b] Vant Hoff ar	nd Le Bel c] Lewi	s d] Pasteur
44) Which of octet rule?	the following mo	elecule is not an ex	ception to the
a]BF ₃	b] CO ₂	c] IF ₇	d] PF ₅
45) Covalent I a] NaCl	bond is found in b] KCl	c] H ₂ O	d] brass
46) The triads a] Dalton	were given by b] Dobereiner	c] Mendeleev	d] None
47) Which of a] Oxygen	the following has b] Fluorine	s zero electron affi c] Nitrogen	nity? d] Neon
48) Coinage r a] Fe, Co, N	metals are Ji b] Na, K, Mg	c] Mg, Ca, Sr	d] Cu, Ag, Au
49) The rare g a] Helium	as which shows b] Krypton	the greatest chem c] Xenon	ical reactivity i d] Neon
50) Which of [.] a] Lithium	the following is a b] Beryllium	a typical element? c] Boron	d] Magnesiur
51) Which of ⁻ a] BeO	the following is a b] ZnO	an amphoteric oxio c] PbO	de? d] all of these
52) Which of ⁻ a] NaOH	the following is t b] KOH	he weakest base? c] Ca(OH) ₂	d] Zn(OH)

a] Halogens		b] Chalcogens	
c] alkali metals		d] alkaline earths	
54) The mos	st abundant metal	in the earth crus	st is
a] Fe	b] Cu	c] Al	d] Au
55) The first	t transitional elem	nent in the period	lic table is
a] Sc	b] Ni	c] Fe	d] Au
56) Which s	et has the stronge	est tendency to fo	rm anions?
a] Ga, In	and Te	b] Na, Mg, and	d Al
c] N, O ai	nd F	d] V, Cr and N	⁄In
57) One of t	he defects o the N	Aendeleev's perion	odic table is
a] positio	n of hydrogen	b] position of	potassium
c] positio	n of lanthanides	d] position of	cobalt
58) The higl	hest oxidation sta	te in the transitio	n metal is
a] + 7	b]+ 8	c] +6	d] +5
59) Which c a] Haloge b] ZnO is c] A non d] A meta	of the following is ens are metals. s more basic than metal is more elec al is more electror	true? CO ctropositive than negative than a ne	a metal. on-metal
59) Which c a] Haloge b] ZnO is c] A non d] A meta 60) Which e a] Na	of the following is ens are metals. s more basic than metal is more elec al is more electror element exhibits m b] Mg Bl	true? CO ctropositive than negative than a no nore than one oxi c] Fe OLOGY	a metal. on-metal dation state? d] H
59) Which c a] Haloge b] ZnO is c] A non d] A meta 60) Which e a] Na 61) The terr a] R.G. H c] Weism	of the following is ens are metals. 5 more basic than metal is more electron al is more electron element exhibits m b] Mg Bl n cell was coined arrison	true? CO ctropositive than negative than a ne nore than one oxi c] Fe OLOGY by b] Feulgen d] Robert Hoo	a metal. on-metal dation state? d] H

64) Tracheids are the compone a] xylem b] phloem c	ents of] collenchyma d	sclerenchym
65) Companion cell is associationa] sclerenchyma b] tracheid	ted with [] tracheae	d] sieve tube
66) Anticoagulant of blood is a] histamineb] thrombine	c] chondrin	d] heparin
67) The cells that cannot be cu centrioles are	Itured as they have	e their
aj neurons bj osteocytes	cj chondrocytes	dj mast cells
68) Father of Biology isa] Linnaeusc] Von Leeuwenhock	b] Aristotle d] Schleiden	
69) Theory of natural selection a] William Harvey c] Robert Hooke	n was proposed by b] Charles Darwi d] Von Morgan	in
70) Five kingdom classificatia] Hyman b] Linnaeus	on was proposed k c] Whittaker	oy d] Aristotle
71) Which of the following do a] fungi b] algae c] bi	es not contain chlo ryophyta d] pter	rophyll? idophyta
72) Highly evolved plant in th a] bryophytes c] angiosperms	e plant kingdom a b] pteridophytes d] gymnosperms	re
73) Tallest and longest living p kingdom belongs to	plant species in the	entire plant
a] pteridophyta c] angiospermae	b] bryophyte d] gymnosperma	ie
74) Name of freshwater sponga] Spongilla b] Euspongia75) The superstant structure in	e c] Euplectella	d] Chalina
a] kidney b]lungs	c] gills	d] flame cell
76) Study of mollusca is	- 0	-
a] Conchology c] Mammology	b] Malacologyd] Ichtheology	

77) The chief component of pearl is a] sodium bicarbonate b] calcium carbonate d] chonchiolin c] chitin 78) Chewing of tobacco may cause c] diarrhea d] oral cancer b] diabetes al ulcer 79) Dim vision at night results due to deficiency of d] Vitamin A a] Vitamin C b] Vitamin E c] Vitamin D 80) Food material responsible for repair of damages is c] fats d] vitamins b] proteins a] carbohydrates 81) Obesity may result due to a] high intake of roughage b] high intake of fatty acid d] mosquito bite c] high intake of water 82) Sweating is a physical process that helps in a] regulation of body temperature b] digestion of food c] transpiration of nutrients d] excretion of uric acid 83) The vitamin that plays an important role in blood clotting i b] Vitamin B complex a] Vitamin A c] Vitamin C d] Vitamin K 84) Study of reptile is called a] Saurology b] Hepatology d] Ophiology c] Herpetology 85) Lack of iron causes c] both a & b a] anaemia b] goitre d] none 86) Which of the following is a water soluble vitamin? a] Vitamin A b] Vitamin D c] Vitamin E d] Vitamin C 87) Rabies is caused by b] bacteria c] fungi d]none a] virus 88) In tinned food, there may be a] staphylococci b] clostridium d] none c] salmonella 89) Intake of alcohol reduces a] vision b] hearing d] alertness c] speech

a] mass selectio c] pure line sele	n ction	b] d]	clonal select natural select	tion ection	
91] Arjuna Awarc a] Journalism	GENERA Is are asso b] Filr	AL KN ociated ms	OWLEDGE with c] Sports	d] Li	iterature
92]The acid used i a] Citric acid c] Lactic acid	n vinegai b] Tar d] Ac	r is rtaric a etic aci	cid id		
93] Who is the aut a] Jaidev c]Willam Shake	hor of the speare	e book	'as you like b] Kalidas d] Lewis Ca	it.' arroll	
94] Paris is the hea Organisations? a] ILO b	adquarter)] FAO	⁻ of wh c] U	ich of the fo NESCO	llowin	g U.N. d] WHC
95] In the world o himself in a] Sarangi	f music, Z b] Sar	Zakir H rod	lussain has d c] Tab	disting Ila	juished d] Flute
96] What is popul a]clove b]ma 97] The deficiency a] E b] D	arly called ace v of which	d 'the c c] ca i vitam c]C	queen of spi ardamom ain causes ste d]B	ces'? d]cir erility?	nnamon
98] What is the cu a]Peseta	rrency of b]Din	Yogos ar	lavia? c] Dol	lar	d]Yen
99] Limba Ram re a] Archery	presentec b] Pol	l India o	in which sp c] Gol	ort? f	d] Hock
100] If a coolie is a creature is a ' a] A breed of he c] A breed of bu	a person v collie'? en ıffalo	vho ca b] A l c] A k	rries goods, breed of dog preed of pig	what k	kind of

