





# **CLASSROOM CONTACT PROGRAMME**

## PRE-NURTURE & CAREER FOUNDATION : CLASS-X (FOR IX to X MOVING STUDENTS)



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### MENTAL ABILITY

- 1. T is the son of P. S is the son of Q. T is married to R. R is Q's daughter. How is S related to T?
  - (1) Brother (2) Uncle
  - (3) Father-in-law (4) Brother-in-law
- 2. In the following question some numbers are given in the shape of figures



**3.** A cube of side 4 cm is painted red on one pair of adjacent surfaces, green on the other pair of adjacent surfaces and two remaining adjacent surfaces are left unpainted. Now the cube is divided into 64 smaller cubes of side 1 cm each.



How many smaller cubes have two surfaces painted?

- (1) 4 (2) 8 (3) 16 (4) 14
- 4. If "PAPER" is written as "RDTJX", "MOTHER" would be:
  - (1) ORVLMG (2) PQUJGT
  - (3) ORXMKY (4) None of these
- 5. Choose the correct mirror image from alternatives 1, 2, 3 and 4 of the figure (X).



6. A + B means A is the son of B, A - B means A is the wife of B,  $A \times B$  means A is the brother of B,  $A \div B$  means A is the mother of B, A = B means A is the sister of B. Which of the following represents P is the maternal-uncle of Q?

(1) 
$$\mathbf{R} \times \mathbf{P} \div \mathbf{Q}$$
 (2)  $\mathbf{P} \times \mathbf{R} \div \mathbf{Q}$  (3)  $\mathbf{P} + \mathbf{R} \div \mathbf{Q}$  (4)  $\mathbf{P} + \mathbf{R} \times \mathbf{Q}$ 

How many c's are there in between two consonants in the following series?c a b c d c d c e c g c o c i c j c k c c k

(1) 4 (2) 5 (3) 6 (4) 11



- **8.** I run along the sides of a square field ABCD where C is to the North-East of A and D is to the South-East of B. Starting from A in anti-clockwise direction, in which direction shall I be running after crossing C?
  - (1) East (2) West (3) North (4) South
- 9. Find out the one figure form the answer figures that will continue the series. *Problem Figures*



- 12. Find the missing number in the place of Question mark.32, 33, 37, 46, ?, 87
  - (1) 59 (2) 61 (3) 62 (4) None of these
- **13.** In the following question, choose the correct alternative figure in which the question figure (X) is embedded.





14. A cube of side 4 cm is painted red on one pair of adjacent surfaces, green on the other pair of adjacent surfaces and two remaining adjacent surfaces are left unpainted. Now the cube is divided into 64 smaller cubes of side 1 cm each.



How many smaller cubes have three surfaces painted?

(1) 2 (2) 4 (3) 8 (4) 6

15. Choose the best suitable alternative diagram marked 1, 2, 3 and 4. So that represent the best relationship amongest the three given groups. Snakes, Land creatures, Water creatures



national

16.

17.

- (1) national (3) national (4) national
- 18. If TRIANGLE is coded as SSHBMHKF, then SQUARE would be
  - (1) RRIASF (2) RPVBSF (3) RRTBQF (4) RPVBSD

19. Choose the best suitable alternative diagram marked 1, 2, 3 and 4, the one that represent the best relationship amongest the three given groups. Males, Nephews, Nieces



- **20.** At my house I am facing West, then I turn left and go 10 m, then I turn 90° anti-clockwise and go 5 m, and then I go 5 m to the South and from there 5 m to the West. In which direction am I from my house?
  - (1) East (2) West (3) North (4) South



print to directed	KOTA (RAJASTHAN)		PHYSICS							
21.	Identify a physical qu	antity which is not a ve	ector.							
	(1) Displacement	(2) Acceleration	(3) Distance	(4) Force						
22.	Area under a 'v-t' gra	ph represents a physica	l quantity which has the	e unit						
	(1) $m^2$	(2) m	(3) $m^3$	(4) m/s						
23.	The value of quantity	'G' in the law of gravi	tation							
	(1) depends on mass	of earth only.								
	(2) depends on radiu	is of earth only.								
	(3) depends on both	mass and radius of eart	h.							
	(4) is independent of	f mass and radius of ear	th.							
24.	Work done is measur	ed by :								
	(1) Force × time		(2) Mass $\times$ time							
	(3) Force $\times$ displaced	ment	(4) Mass × distar	nce						
25.	A canon after firing re	ecoils due to								
	(1) conservation of e	energy	(2) backward thru	ust of gases						
	(3) Newton's third la	aw of motion	(4) Newton's firs	(4) Newton's first law of motion						
26.	A particle is moving i	in a circular path of rad	ius 'r'. The displacemen	nt after half a circle would be						
	(1) πr	(2) 2r	(3) Zero	(4) $2\pi r$						
27.	Which of the following	ng is not a unit of powe	r ?							
	(1) $N m/sac$	(2) L/see	(3) kg. $m^2/(sec)^3$	N.J						
	(1) N.m/sec	(2) J./sec	(5) kg. III / (sec)	$(4)  \overline{\mathrm{m}^{3}(\mathrm{sec})^{2}}$						
28.	The gravitational for	ce between two objec	ts is F. If masses of b	oth objects are halved without						
	changing distance bet	tween them, then the gr	avitational force betwee	en them would become						
	(1) F/4	(2) F/2	(3) F	(4) 2F						
29.	In SONAR, we use									
	(1) Ultrasonic waves	5	(2) Infrasonic wa	ives						
	(3) Radio waves		(4) Audible soun	d waves						
30.	<b>).</b> The force of attraction between two unit point masses seperated by a unit distance is called									
	(1) gravitational pote	lue to gravity								
	(3) gravitational field		· /	vitational constant						
31.		f displacement to distant	nce for a moving object	is						
	(1) less than 1		(2) equal to 1							
4/16	(3) greater than 1	•	(4) less than or e	quals to 1						



32. What about the planets is true ? (1) Heavenly bodies which revolve around the sun. (2) Revolve in closed elliptical orbits. (3) Have no light of their own. (4) All of the above 33. Work done by a frictional force when a body slides over a rough surface is : (1) Zero (2) Negative (3) Positive (4) May be negative or positive 34. The action and reaction forces referred to the third law of motion. (1) must act on the same object. (2) may act on different objects. (3) must act on different objects. (4) need not be equal in magnitude but must have the same direction. Kg-m/ $s^2$  is the unit of 35. (1) Momentum (2) Speed (3) Acceleration (4) Force 36. Which of the following distance-time graph is not possible : D (1)(2)D (4)(3)37. Tides occur mainly due to : (1) Gravitational pull of moon (2) Gravitational pull of earth (3) Gravitational pull of sun (4) All are correct 38. When a bus starts suddenly the passengers standing on it, Lean backwards in the bus. This is an example of : (1) Newton's first law (2) Newton's second law (3) Newton's third law (4) None of Newton's laws 39. Work done by force of gravity on a box lying on the roof of a bus moving with a constant velocity on a straight road is :

(1) Positive (2) Zero	(3) Negative	(4) Can't say
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- **40.** Which is not true for mechanical waves ?
  - (1) Mechanical waves travel through vacuum
  - (2) Mechanical waves need elastic medium
  - (3) Example of mechanical waves is sound wave
  - (4) None of these
- 41. A car increases its speed from 20 m/sec to 50 m/sec in 10 seconds. Its acceleration is :
  - (1)  $30 \text{ m/s}^2$
  - (2)  $3 \text{ m/s}^2$
  - (3)  $18 \text{ m/s}^2$
  - (4) None of these
- 42. Force of gravitation between two bodies of mass 1 kg each kept at a distance of 1m is :
  - (1) 6.67 N
  - (2)  $6.67 \times 10^{-9}$  N
  - (3)  $6.67 \times 10^{-11}$  N
  - (4)  $6.67 \times 10^{-7}$  N
- **43.** A body is projected vertically upwards with a velocity of 98 m/sec. What is the time for which body will remain in air ?
  - (1) 5 sec
  - (2) 10 sec
  - (3) 15 sec
  - (4) 20 sec
- 44. If positive work is done on an object, its kinetic energy :
  - (1) Decreases
  - (2) Increases
  - (3) Remains same
  - (4) None of these
- **45.** A note of 250 Hz frequency travels through a solid. What is the wavelength if the velocity of sound in the solid is 12.5 km/s :
  - (1) 100 m
  - (2) 50 m
  - (3) 25 m
  - (4) 10 m



	CHEMISTRY											
46.	In washing machines	s, wet clothes are dried by	y using the process of									
	(1) Centrifugation		(2) Evaporation									
	(3) Sedimentation		(4) Filtration.									
47.	The total number of	molecules in 10 g of calc	ium carbonate is :									
	(1) $6.02 \times 10^{21}$	(2) $6.02 \times 10^{22}$	(3) $6.02 \times 10^{23}$	(4) $6.02 \times 10^{24}$								
48.	Pumice stone is an e	xample of										
	(1) Gel	(2) Emulsion	(3) Foam	(4) Solid foam								
49.	A volatile liquid has	:										
	(1) low b.p. and we	aker interparticle forces.										
	(2) high b.p. and weaker interparticle forces.											
	(3) high b.p. and str	onger interparticle forces	3.									
	(4) low b.p. and stro	onger interparticle forces										
50.												
	(4) low b.p. and stronger interparticle forces.											
	In washing machines, wet clothes are dried by using the process of (1) Centrifugation (2) Evaporation (3) Sedimentation (4) Filtration. The total number of molecules in 10 g of calcium carbonate is : (1) $6.02 \times 10^{21}$ (2) $6.02 \times 10^{22}$ (3) $6.02 \times 10^{23}$ (4) $6.02 \times 10^{24}$ Pumice stone is an example of (1) Gel (2) Emulsion (3) Foam (4) Solid foam A volatile liquid has : (1) low b.p. and weaker interparticle forces. (2) high b.p. and weaker interparticle forces. (3) high b.p. and weaker interparticle forces. (4) low b.p. and stronger interparticle forces. (5) high b.p. and stronger interparticle forces. (4) low b.p. and stronger interparticle forces. (5) The molecular formula $P_2O_3$ means that : (1) A molecule contain 2 atoms of P and 5 atoms of O. (2) The ratio of the mass of P to the mass of O in the molecule is 2 : 5. (3) The ratio of the mass of P to mass of O in the molecule is 5 : 2. (4) None of these The number of neutrons in ${}_{13}A ^{27}$ is: (1) $15$ (2) $27$ (3) $13$ (4) $14$ Which of the following describes a liquid state : (1) Definite volume and definite shape. (2) Definite volume and no definite shape. (3) Definite shape but no definite volume. Which statement is false about 'True solution' : (1) It is homogeneous in nature (2) It shows scattering when light is passed through true solution (3) In true solution, particles of solute do not settle down											
		mass of P to mass of O in	n the molecule is 5 : 2.									
51.												
				(4) 14								
52.			e :									
53.												
55.	In washing machines, wet clothes are dried by using the process of (1) Centrifugation (2) Evaporation (3) Sedimentation (4) Filtration. The total number of molecules in 10 g of calcium carbonate is : (1) $6.02 \times 10^{21}$ (2) $6.02 \times 10^{22}$ (3) $6.02 \times 10^{23}$ (4) $6.02 \times 10^{24}$ Pumice stone is an example of (1) Gel (2) Emulsion (3) Foam (4) Solid foam A volatile liquid has : (1) low b.p. and weaker interparticle forces. (2) high b.p. and weaker interparticle forces. (3) high b.p. and weaker interparticle forces. (4) low b.p. and stronger interparticle forces. (5) high b.p. and stronger interparticle forces. (6) how b.p. and stronger interparticle forces. (7) The molecular formula $P_2O_5$ means that : (1) A molecule contain 2 atoms of P and 5 atoms of O. (2) The ratio of the mass of P to the mass of O in the molecule is 2 : 5. (3) The ratio of the mass of P to the mass of O in the molecule is 5 : 2. (4) None of these The number of neutrons in $_{13}Al^{27}$ is: (1) $15$ (2) $27$ (3) $13$ (4) $14$ Which of the following describes a liquid state : (1) Definite volume and definite shape. (2) Definite volume and no definite shape. (3) Definite shape but no definite shape. (4) Neither definite shape nor definite volume. Which statement is false about 'True solution' : (1) It is homogeneous in nature (2) It shows scattering when light is passed through true solution											
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	In washing machines, wet clothes are dried by using the process of (1) Centrifugation (2) Evaporation (3) Sedimentation (4) Filtration. The total number of molecules in 10 g of calcium carbonate is : (1) $6.02 \times 10^{21}$ (2) $6.02 \times 10^{22}$ (3) $6.02 \times 10^{23}$ (4) $6.02 \times 10^{24}$ Pumice stone is an example of (1) Gcl (2) Emulsion (3) Foam (4) Solid foam A volatile liquid has : (1) low b.p. and weaker interparticle forces. (2) high b.p. and weaker interparticle forces. (3) high b.p. and weaker interparticle forces. (4) low b.p. and stronger interparticle forces. (5) high b.p. and stronger interparticle forces. (4) low b.p. and stronger interparticle forces. (5) The molecular formula P <sub>2</sub> O <sub>5</sub> means that : (1) A molecule contain 2 atoms of P and 5 atoms of O. (2) The ratio of the mass of P to the mass of O in the molecule is 2 : 5. (3) The ratio of the mass of P to mass of O in the molecule is 5 : 2. (4) None of these The number of neutrons in $_{12}A^{12^2}$ is: (1) 15 (2) 27 (3) 13 (4) 14 Which of the following describes a liquid state : (1) Definite volume and definite shape. (2) Definite volume and no definite volume. (3) Definite shape but no definite volume. (4) Neither definite shape nor definite volume. (5) Definite shape nor definite volume. (6) Neither definite shape nor definite volume. (7) It is homogeneous in nature (7) It is homogeneous in nature (7) It shows scattering when light is passed through true solution (3) In true solution, particles of solute do not settle down											
		-										
54.			n ordinary hydrogen atom	2								
2	(1) Proton	(2) Neutron	(3) Electron	(4) None of these								

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#### ASAT : CLASS-X SAMPLE TEST PAPER

- 55. Which of the following statements is incorrect regarding solubility :
  - (1) Solubility of a solid in a liquid is always defined at a particular temperature
  - (2) Solubility of a solid in a liquid is negligibly affected by changes in pressure
  - (3) Solubility of a gas in a liquid increases with increase in temperature
  - (4) A saturated solution can be made unsaturated by adding some amount of solvent to the saturated solution
- 56. Which statement is correct regarding structure of an atom :
  - (1) Atom possess empty space (2) Atom possess central nucleus
  - (3) Electrons revolve around the nucleus (4) All of these
- **57.** Select the correct statement :
  - (1) Diffusion is not possible in solids in any condition.
  - (2) Solids have limited free surfaces.
  - (3) Liquids always have fixed shape.
  - (4) None of these.
- **58.** Which of the following statements is incorrect :
  - (1) Gram atomic mass of any element always contains 1 mole of that element
  - (2) A collection of  $6.023 \times 10^{24}$  particles is called 1 mole
  - (3) Atomic mass and gram atomic mass have the same numerical value
  - (4) None of these
- 59. What happens to the volume of the resulting solution when sugar is dissolved in it :
  - (1) Volume will increase
  - (2) Volume will decrease
  - (3) Volume first increases then decreases
  - (4) No change in volume
- 60. Chromatography technique is used for the separation of :
  - (1) Mixture of amino acids (2) Dye stuffs
  - (3) Plant pigments (4) All of the above
- 61. The balancing of chemical equation is based upon :
  - (1) Law of definite proportion
  - (2) Law of multiple proportions
  - (3) Law of conservation of mass
  - (4) None of these



**62.** Two chemical species X and Y combine together to form a product P which contains both X and Y  $X + Y \rightarrow P$ 

X and Y cannot be broken down into simpler substances by any chemical method. Which of the following concerning the species X, Y and P are correct?

(i) P is a compound

- (ii) X and Y are compounds
- (iii) X and Y are elements
- (iv) P has a fixed composition
- (1) (i), (ii) and (iii),
- (2) (i), (ii) and (iv)
- (3) (ii), (iii) and (iv)
- (4) (i), (iii) and (iv)
- 63. Column II represents how rate of evaporation changes for factors given in column I. Match them correctly :

	Column I	Column II				
(a)	Increase in surface area	(p)	Increases			
(b)	Decrease in temperature	(q)	Decreases			
(c)	Decrease in humidity	(r)	Unchange			
(d)	Increase in wind speed	(s)	May increase or decrease.			

(1) 
$$a-p, b-r, c-s, d-r$$

(2) 
$$a - r, b - p, c - p, d - s$$

- (3) a-p, b-r, c-p, d-p
- (4) None of these

**64.** The ratio by mass of C and O in  $CO_2$  is :

(1) 1:2 (2) 3:14 (3) 3:8 (4) 3:11

- 65. Rutherford's  $\alpha$  particle scattering experiment eventually led to the conclusion that :
  - (1) Most of the space in the atom is empty.
  - (2) The atoms contains a central nucleus containing positive charges.
  - (3) Both (1) and (2)
  - (4) Neutrons are deep in the nucleus.

- **66.** At higher altitudes :
  - (1) Boiling point of a liquid increases
  - (2) Boiling point of a liquid decreases
  - (3) No change in boiling point
  - (4) None of these
- **67.** If 11 gms of NaCl is dissolved in 99 gms of water, the concentration (mass %) of the solution formed is
  - (1) 11.1%
  - (2) 10%
  - (3) 88.9%
  - (4) None of these
- **68.** Number of electrons and protons in an atom of element 'X' is 27 each. The no. of electrons and protons in  $X^{-3}$  and  $X^{+4}$  respectively are :
  - (1) 24, 27, 31, 27
  - $(2) \ \ 30, 27, 23, 27$
  - (3) 23, 30, 27, 31
  - (4) 27, 30, 27, 31
- 69. During the separation of two liquids by fractional distillation :
  - (1) The component with lower melting point separates first
  - (2) The component with higher melting point separates first
  - (3) The component which is less volatile separates first
  - (4) The component which is more volatile separates first
- 70. A dipositive ion has 16 protons. What is the no. of electron in its tetrapositive ion ?
  - (1) 16
  - (2) 14
  - (3) 12
  - (4) 10



		BIC	DLO	GY					
71.	Which among the follow	wing is/are prokaryote ?							
	(1) Pseudomonas bact	eria	(2)	Mycoplasma					
	(3) Nostoc (blue green	algae)	(4)	All of these					
72.	The wall of cork cells a	re thickened by the depos	sition	of -					
	(1) Suberin	(2) Cutin	(3)	Lignin	(4)	Pectin			
73.	Which of the following	resource is inexhaustible	form	n of energy ?					
	(1) Solar energy	(2) Wind energy	(3)	Tidal energy	(4)	All of these			
74.	In plants cell wall is get	nerally made up of –							
	(1) Chitin		(2)	Cellulose					
	(3) Peptidoglycan		(4)	None of these					
75.	Small pox and measles	are caused by –							
	(1) Virus	(2) Protozoan	(3)	Bacterium	(4)	Nematode			
76.	The muscles bound con	nected to the bones are –							
	(1) Cardiac muscle		(2)	Striated muscle					
	(3) Non striated muscl	e	(4) Involuntary muscle						
77.	Which of the following	are not placed in five kin	igdon	n classification of wh	nittak	xer?			
	(1) Viruses	(2) Bacteria	(3)	Algae	(4)	Protozoa			
78.		in the alimentary canal or	r the	contraction and relax	atio	n of blood vessels are			
	<ul><li>due to :</li><li>(1) Voluntary muscle</li></ul>			Involuntary muscle					
			. ,	2					
79.	(3) Cardiac muscle Green manure is rich in		(4)	All of these					
13.	<ul><li>(1) Nitrogen</li></ul>	(2) Calcium	( <b>3</b> )	Molybdenum	(4)	Iodine			
80.	Which the following is		(3)	Morybaenam	(4)	loume			
00.	<ul><li>(1) Fungi</li></ul>	(2) Protozoan	(3)	Bacteria	(4)	Virus			
81.	Which of the following		(3)	Daeterra	(ד)	v nus			
01.	(1) Ascaris	(2) Tapeworm	(3)	Sea anemone	(4)	Hydra			
82.	Nucleus is found in –	(2) Tuperionn	(5)	Sea anemone	(.)	i julu			
	<ul><li>(1) Sieve tube and con</li></ul>	npanion cell	(2)	Mature RBC and W	/BC				
	<ul><li>(1) Shere table and com</li><li>(3) WBC and platelets</li></ul>	-	. ,	WBC and companie		ell			
	(-) ····································								

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05.	Ozone layer is present in-	
	(1) Troposphere	(2) Mesosphere
	(3) Stratosphere	(4) Ionosphere
84.	Which of the following is longest animal cell ?	
	(1) Voluntary muscle	(2) Neuron
	(3) Monocyte	(4) Fiber
85.	Malaria is caused by–	
	(1) Protozoa	(2) Algae
	(3) Fungi	(4) Bacteria
86.	Pisces and amphibians are-	
	(1) Non chordates	
	(2) Vertebrates	
	(3) Diploblastic	
	(4) Acoelomate	
87.	The largest cell among WBC is :	
	(1) Monocyte	(2) Lymphocyte
	(3) Basophil	(4) Neutrophil
88.	Nodules in the roots of legume plants contain :	
	(1) Carbon fixing bacteria	
	(2) Potassium fixing bacteria	
	(3) Sulphur fixing bacteria	
	(4) Nitrogen fixing bacteria	
89.	Following are a few definitions of osmosis. Read	l carefully and select the correct definition:
	(1) Movement of water molecules from a region lower concentration through a semipermeab	n of its higher concentration to a region of its le membrane
	(2) Movement of solvent molecules from its through impermeable membrane.	higher concentration to lower concentration
	(3) Movement of solvent molecules from hig solution through a permeable membrane	her concentration to lower concentration of
	(4) Movement of solute molecules from low	er concentration to higher concentration of

on of (4) solution through a semipermeable membrane

-0



- **90.** Chronic disease is–
  - (1) Elephantiasis
  - (2) Asthma
  - (3) Both (1) and (2)
  - (4) Common cold
- 91. Part of neuron which first receive nerve impulse is :
  - (1) Cyton
  - (2) Axon
  - (3) Dendron
  - (4) Terminal arborization
- 92. Plant groups in which reproductive organs are very inconspicuous are called-
  - (1) Cryptogamae
  - (2) Phanerogamae
  - (3) Angiosperms
  - (4) None of these
- 93. Fibrous tissue of great strength which put limited flexibility and connect bone to muscle :
  - (1) Ligament
  - (2) Tendon
  - (3) Adipose tissue
  - (4) Bone
- 94. Which one of the following species of honeybee is an Italian species?
  - (1) Apis dorsata
  - (2) Apis florea
  - (3) Apis cerana indica
  - (4) Apis mellifera
- 95. The disease caused due to worm is
  - (1) Tetanus (2) Rabies
  - (3) Sleeping sickness (4) Filariasis





path to success	CAREER INSTITUTE			ASAI : CLASS-X SAMPLE TEST
104.	$\frac{885 \times 885 \times 885}{885 \times 885 + 115} \times$	$\frac{+115 \times 115 \times 115}{\times 115 - 885 \times 115} =$	= ?	
	(1) 1000	(2) 770	(3) 885	(4) 115
105.		of 10 men is decreased rson. The weight of the n		them whose weight is 80 kg is
	(1) 70	(2) 60	(3) 50	(4) 73
106.	Area of given figure :			
			n 9 cm	
	(1) $104 \text{ cm}^2$	(2) $124 \text{ cm}^2$	(3) $100 \text{ cm}^2$	(4) $114 \text{ cm}^2$
107.	The linear equation y	= 2x + 3 cuts the y axis	at:	
	(1) (0,3)	(2) (0, 2)	$(3)  \left(\frac{3}{2}, 0\right)$	$(4)  \left(\frac{2}{3}, 0\right)$
108.	In the given figure, A	$C \parallel BD, \angle CAF = 25^{\circ}, \angle I$	$DBG = 65^{\circ} \text{ and } BF = 2$	BA. Then, ∠BFE is equal to:
	(1) 90°	(2) 155°	65° B G (3) 140°	(4) 165°
109.				en a single dice is thrown.
	-	(2) $\frac{1}{6}$ 500 find the value of $\frac{x^2}{2}$	_	(4) $\frac{1}{2}$
110.	If $5^{2x-1} - 25^{x-1} = 2$ .	500 find the value of $\frac{x^2}{2}$	$\frac{2^2-1}{2} \times 3:$	
	(1) $\frac{8}{3}$	(2) 8	x (3) 24	(4) None of these
111.	-	gle having base b and ea	-	
	I. Area = $\frac{b\sqrt{4a^2 - b}}{4}$	$\frac{\overline{p^2}}{\overline{p^2}}$ , II. Perimeter = (2a)	a + b) III. Height =	$\frac{1}{2}\sqrt{4a^2-b^2}$
	Which of the followin			2
	(1) I only		(2) I and II only	
	(3) II and III only		(4) I, II and III	
112.	The perimeter of one	face of a cube is 20 m, the	hen its volume is	
	(1) $800 \text{ m}^3$	(2) $1000 \text{ m}^3$	(3) $125 \text{ m}^3$	(4) $400 \text{ m}^3$

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**113.** Find x, if in  $\triangle ABC AD = BD = CD$  and angle  $\angle ABC = 50^{\circ}$ 





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## ASAT : CLASS-X SAMPLE TEST PAPER

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								Α	NS\	NEF	RK	ΞY								
Q.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Α.	4	1	4	3	3	2	2	2	4	3	2	3	2	1	1	4	4	3	4	4
Q.	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
Α.	3	2	4	3	3	2	4	1	1	4	4	4	2	3	4	2	1	1	2	1
Q.	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
Α.	2	3	4	2	2	1	2	4	1	1	4	2	2	2	3	4	4	2	4	4
Q.	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
Α.	3	4	4	3	3	2	2	2	4	3	4	1	4	2	1	2	1	2	1	3
Q.	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
Α.	2	4	3	2	1	2	1	4	1	3	3	1	2	4	4	4	4	2	1	3
Q.	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120
Α.	3	4	2	1	3	4	1	3	1	2	4	3	1	2	4	1	3	3	4	2