VIDARBHA TALENT SEARCH EXAMINATION



Standard : **VIII (Eight)** Date of Test:

Student's Name:

Time Allowed: 2 Hrs.Maximum Marks: 450

Roll No.:

 NOTE : 1. There are 5 Sections (1) Physics (2) Chemistry (3) Mathematics (4) Biology (5) Mental Ability 2. Each section has 30 questions. 3. There is negative marking scheme (3R-1W). Which means that for correct answer 3 mark will be awar & for wrong answer 1 mark will be deducted. 4. Use black ball point pen only. 5. Darken only one bubble completely, corresponding to the correct option. 6. Do not cancel the filled bubble or darken more than one bubble. It will be treated as wrong answer. 7. You may do rough work on the last blank page. 			
СН	OOSE THE CORRECT OPTION :	 07. A black body emits (a) Radiations of all wavelengths (b) No radiations 	
01.	Light year is a unit of :(a) Time(b) Distance(c) Velocity(d) Acceleration	(c) Radiations of only one wavelengths(d) radiations of selected wavelength	
02.	 (d) Receiver (d) Receiver (d) Receiver (d) and (d) an	 08. Size of a nucleus is of the order of (a) 10⁻¹⁸ m (b) 10⁻¹⁴ m (c) 10⁻¹⁰ m (d) 10⁻⁶ m 09. In isothermal expansion of an ideal gas (a) Heat content remains constant (b) Temperature remains constant 	
03. 04.	If a piece of ice floating on the surface of water in a beaker melts completely, the level of water (a) Rises (b) Remains the same (c) Falls (d) Initially rises and then falls A Kelvin thermometer and Fahrenheit	 (c) Both heat content and temperature remains constant (d) Pressure and temperature of the gas remain constant 10. Two thin blankets piled together are warmer than a single one of the same total thickness as the two 	
	thermometer used to record temperature of melting metal, read the same. What will a cicelies thermometer read at that temperature ? (a) 201.25° (b) 273° (c) 457° (d) 760°	because (a) Air is enclosed	
05.	 (a) 501.25 (b) 275 (c) 457 (d) 700 A hydrogen-filled balloon expands as it rises and may even burst after rising very high in the atmosphere. This happens because (a) The temperature increases with height (b) The temperature decreases with height (c) The atmospheric pressure increases with height (d) The atmospheric pressure decreases with 	 (b) The distance of the heat transmission increases (c) Total surface increases (d) It is a wrong statement 11. Cooking is done fast in pressure cooker because (a) The boiling point of water is lowered. 	
06.	height If the surface of water in a lake is just going to Freeze, then the temperature of water at the bottom is : (a) 0° C (b) 4° C (c) 3° C (d) None of these	 (b) The boiling point of water is increased (c) More pressure in the cooker cooks the food at 100°C (d) The boiling point remains the same but more steam cooks the food 	

12. Two students ordered tea in a restaurant and	22. Photo-electric cell is used in
waited for a friend who was to join them shortly	(a) Television
one of them poured hot tea in his cup and mixed	(b) Photography
cold milk in it and the other poured hot tea but	(c) Reproduction of sound in cinema
mixed the cold milk only after the friend came	(d) Automatic switching of street lightening
after five minutes. Now the temperature of the cup	circuits
of tea of the	23. Which one of the following solutions can be
(a) Second student is higher	electrolysed ?
(b) First student is higher	(a) Mercury
(c) Both student is the same	(b) Distilled water
(d) First student is less by 20°C that of the second	(c) Solution of common salt
student	(d) Milk
13. The door of a running refrigerator inside a closed	24 Which one of the following substances is the
room was left open. Then	24. Which one of the following substances is the
(a) The room will be cooled slightly	(a) Moreovery (b) Iron (a) Cold (d) Silver
(b) The temperature of the room will be lowered	(a) Mercury (b) Itoli (c) Gold (d) Shver
(c) The temperature of the room will not be	25. The magnetism in a magnet is mainly due to
affected	(a) The orbital motion of the electrons
(d) The room will be warmed up gradually	(b) The spin motion of the electrons
14 In which one of the following the velocity of	(c) The nuclear charge
sound is maximum	(d) None of these
(a) Steel (b) Air (c) Water (d) Wood	26. A magnet can be demagnestised by
(a) Steel (b) All (c) water (d) wood	(a) Hammering the magnet
15. The following one is not a primary colour	(b) Putting it in the water
(a) Yellow (b) Red (c) Green (d) Blue	(c) Cooling it
16. Microphone is used to convert	(d) Putting it in contact with iron
(a) Electrical energy into sound energy	27. The effective length of the magnet is
(b) Sound energy into electrical energy	(a) The complete length of the magnet
(c) Sound energy into mechanical energy	(b) The distance between the two poles of the
(d) Sound energy into chemical energy	magnet
17. Which of the following is a non-luminous body?	(c) The half of the length of the magnet (\mathbf{c})
(a) Sun (b) Moon	(d) The square of the length of the magnet
(c) Candle flame (d) Electric lamp	28. Two bars of soft iron exactly alike are given. One
18. Which one of the following is bad conductor of	of them is a magnet. Without using any thing
electricity ?	more, how would you find which is a magnet?
(a) Acid (b) Coal	(a) By bringing the two bars near and noting
(c) Distilled water (d) Human body	which one attracting the other. The one which is
19. When a glass rod is rubbed with silk	getting attracted is magnet.
(a) Negative charge is produced on silk but no	(b) By bringing the two bars hear and noting
charge on the glass rod	which one is repending one which repeas is an
(b) Equal but opposite charge are produced on the	
both	(c) By rubbing one bar with the other and noting
(c) Equal and similar charges are produced on the	magnetised is an ordinary iron
both	(d) One has is alread flat having table on the table and
(d) Positive charge is produced on the glass rod	(u) One bar is placed that horizontal on the table and the other her is held verticel with its one and on the
but no charge on the silk	middle of first har. If there is attraction between the
20. On electrolysis of water, Oxygen is collected	two the vertical bar is magnet otherwise ordinary
at	iron
(a) Anode (b) Cathode	
(c) both electrodes (d) None of these	29. When a small magnetic needle is placed below a
21. Cathode rays	from west to cost the north pole will point
(a) Are the currents of electrons	$(a) N_{a} (b) S_{a} (b) F_{a} (c) F_{a} (c) M_{a} (c) $
(b) Are the currents of protons	(a)North (b) South (c) East (d) West
(c) Are the rays of light	30. At which temperature do the reading the celsius &
(d) Can be seen by the eyes	the fahrenheit scale coincide
	(a) 0° (b) 100° (c) -40° C (d) 40° C

	CHEMISTRY	41.	Which one of the follo part of the atmosphere?	owing gases does not form
СН	OOSE THE CORRECT OPTION :		(a) Nitrogen	(b) Chlorine
31.	Which of the following is whole number?		(c) Carbon dioxide	(d) oxygen
	(a) Atomic mass (b) Atomic number	42.	Metallurgy is the proces	ss of
	(c) Atomic volume (d) Atomic radius		(a) Roasting the ore	
32.	An example of covalent compound is		(b) concentrating the or	·e
	(a) $CaCl_2$ (b) KCl (c) BaO (d) $CHCl_3$		(c) Adding carbon to th	e ore in blast furnace
33	Which one of the following solution will conduct	(d) Extracting metal from the ore		om the ore
55.	electricity?	43.	The reactions favoured	by light are called
	(a) sugar in water		(a) Endothermic reaction	ons
	(b) sugar in ethyl alcohol		(b) Exothermic reaction	ıs
	(c) Iodine in ethyl alcohol		(c) Photochemical react	ions
	(d) Magnesium chloride in water		(d) None of the above	
34.	Ethane is	44.	The substance capable	of being drawn into a wire
	(a) Paraffin		is called	
	(b) Unsaturated hydrocarbon		(a) Pliable	(b) Ductile
	(c) Saturated cyclic hydrocarbon		(c) Malleable	(d) Flexible
	(d) carbohydrate	45.	Which one of the follow	wing substances increase in
35.	In photosynthesis in plants, H_2O and CO_2 react		weight by burning in ai	r?
	in presence of light and chlorophyll to give		(a) wood	(b) magnesium
	carbohydrate and oxygen. When carbohydrates are		(c) paper	(d) candle
	burnt in air, the gases produced are	46.	Which one of the follow	ving is non-metal?
	(a) $CO_2 + H_2$ (b) $CO_2 + CO$		(a) Borax	(b) Washing soda
	(c) $CO_2 + H_2O$ (d) $CO_2 + O_2$		(c) Common salt	(d) Phosphorus
36	The chemical formula of a particular compound	47.	The inert gases are	
50.	represents?		(a) Monoatomic	(b) Diatomic
	(a) The size of molecule		(c) Triatomic	(d) Polyatomic
	(b) The shape of its molecule	48. Which one of the following is an alloy?		ving is an alloy?
	(c) The total number of atoms in its molecule		(a) Calcium	(b) Quick lime
	(d) The number of different types of atoms in its		(c) Bronze	(d) Gypsum
	molecule.	49.	Sodium carbonate is th	e chemical name for
37.	Which one of the following is used to prepare		(a) soda lime	(b) caustic potash
	polythene plastic?		(c) Baking soda	(d) Washing soda
	(a) Ethane (b) Methane	50.	In the isotope ${}_{6}C^{13}$ the	e number of neutrons is
	(c) Acetylene (d) Ethylene		(a) 6 (b) 7	(c) 19 (d) 13
38.	The chemical properties of an atom depend upon	51.	At constant temperatur	e, the pressure of a gas to
	the		its volume is	
	(a) valency (b) Atomic number		(a) inversely proportion	al
	(c) Number of isotopes (d) Atomic weight		(b) Directly proportiona	al
39.	The number of electrons in the outermost orbit of		(c) Not proportional	
	the chlorine is		(d) none of the above	
	(a) 1 (b) 7 (c) 5 (d) 17	52.	The only non-metallic	element, which is liquid at
40.	The three elements most usually contained in		room temperature, is	
	fertilizers are		(a) Bromine	(b) Methane
	(a) potassium, phosphorus and carbon		(c) Chloride	(d) Carbon monoxide
	(b) sodium, nitrogen and phosphorus	53.	The 'lead of lead pencil	s is not Pb but is'
	(c) silica, nitrogen and phosphorus		(a) calcium carbonate	(b) Iron
	(d) potassium, phosphorus and nitrogen		(c) Calcium sulphate	(d) Graphite

- 54. Cl^{35} and Cl^{37} are (b) Isotopes (a) Isomers (d) Isobars (c) Isomorphous
- 55. A mineral is known as the ore of a metal if metal
 - (a) cannot be produced from it
 - (b) can be produced from it
 - (c) can be produced from it profitably
 - (d) present in it, is very costly
- 56. Among the following elements the one that forms the strongest acid is ___
 - (a) chlorine (b) sulphur
 - (d) Phosphorus (c) Aluminium
- 57. Which one of the following is neither an element nor a compound?
 - (d) Water (a) Air (b) Glucose (c) Gold
- 58. The most abundant element in the earth's crust is

(b) oxygen (c) Si (a) Al (d) Fe

- 59. A chemical reaction that takes place with the evolution of heat is called a/an
 - (a) Reversible reaction (b) Endothermic reaction
 - (c) Thermal reaction (d) Exothermic reaction
- 60. Which of the following is amorphous?
 - (a) Glass (b) Sodium chloride
 - (c) powdered marble (d) cane sugar

MATHEMATICS

CHOOSE THE CORRECT OPTION:

61. The number of solutions of the equations 3x - 5y = 9 and 24x - 72 = 40y is (d)

(**b**) 1 (c) 2 (a) Nil Unlimited

62. Two circles of radii x and y touch each other externally (x > y). If AB is the common tangent, then AB^2 is equal to

(b) $(x-y)^2$ **(c)** 4(x+y) **(d)** $(x+y)^2$ (a) 4xy

- 63. B is 10% heavier than A and C is 10% lighter than B. What can you say about the relative weights of A and C?
 - (a) C is heavier than A by 1%
 - (**b**) C is lighter than A by 1 %
 - (c) They are equal in weight
 - (d) C is lighter than A by 99%
- 64. The radii of two circular cylinders are in the ratio 2:3 and their heights are respectively in the ratio 5 : 7 what is the ratio of their volumes ?

(a)
$$5:7$$
 (b) $2:3$ (c) $10:21$ (d) $20:63$

65. If $(a^2 + b^2)^3 = (a^3 + b^3)^2$ and $ab \neq 0$, then $\left[\frac{a}{b} + \frac{b}{a}\right]^6$ is equal to (a) $\frac{a^6 + b^6}{a^3 b^3}$ **(b)** $\frac{64}{729}$ (**d**) $\frac{a^6 + a^3b^3 + b^6}{a^2b^4 + a^4b^2}$ **(c)** 1

- 66. The difference between compound interest and simple interest on a certain sum for one year at 5% per 6 months is Rs. 3 then the sum is
 - (a) Rs. 1,200 (b) Rs. 1,250 (d) Rs. 1,150 (c) Rs. 1,100
- 67. If the product of three consecutive integers is 210, then sum of the two smaller integers is

68. The H.C.F. of two expressions is x and their L.C.M. is $x^3 - 9x$. If one of the expressions is $x^2 + 3x$, then the other expression is

(a) $x^2 - 3x$ (b) $x^3 - 3x$ (c) $x^2 + 9x$ (d) $x^2 - 9x$

69. If the circumference of a circle is 80 cm, then the side of a square inscribed in the circle is

(a)
$$\frac{40}{\pi} \cdot \frac{1}{\sqrt{2}}$$
 cm (b) $\frac{80}{\pi} \cdot \frac{1}{\sqrt{2}}$ cm (c) $40\sqrt{2}$ cm (d) $80\sqrt{2}$ cm

70. The smallest integral value of x, for which $\frac{5}{x}$ is an

integer is

- (a) -1 **(b)** 1 (c) - 5(**d**) 5
- 71. A man's age is six times that of his son's age. In six year's the father's age will be three times of the son's age. The age of the father and the son are respectively

72. The value of
$$\frac{x^{a+b} \times x^{b+c} \times x^{c+a}}{(x^a \times x^b \times x^c)^2}$$
 is

(a) 1 (b)
$$x^2$$
 (c) x^{a+b+c} (d) x^{abc}

- 73. The H.C.F. of 608, 544 : 638, 783; and 425, 476 respectively is
 - **(a)** 32, 29, 17 **(b)** 17, 32, 29 (c) 29, 32, 17 (d) 32, 17, 29
- 74. If the value of a car depreciates each year by 20 %of its value at the beginning of the year and the present value of the car is Rs. 30,000 what was the car's value a year ago?

(a) Rs. 37,500	(b) Rs. 34,000
(c) Rs. 36,000	(d) None of these

75. A student walks from his house at 4 km per hour and reaches his school 5 minutes late. If his speed has been 5 km per hour he would have reached 10 minutes early. The distance of the school from his house is

(a) 5/3 km (b) 5 km (c) 6 km (d) 4 km

76. If one root of the equation $3x^2 - 9x = kx - k$ is 2, then the value of k is (a) 4 (**d**) -8

(b) 3 (c) -6

77. In a triangle ABC, AD is perpendicular on BC and $AB = 3\sqrt{2}$ cm, BC = 5 cm and AD = 3 cm. Then, what is the length of AC?

(b) $2\sqrt{10}$ cm (c) $\sqrt{13}$ cm (d) 6 cm (a) 3 cm

78. If $(125-x^3) = (5-x)(x^2 + abx + b^2)$. Then find the value of *a* :

(a) 4 **(b)** 2 (c) -7(**d**) 5

79. There is a cone of height 6 cm. It is cut into 2 parts by an axis parallel to the base. Height and volume of one part are 3 cm and 25 cm^3 respectively. What will the volume of the second part?

(a) 175 cm^3 (b) 125 cm^3 (c) 75 cm^3 (d) 110 cm^3

80. 'A' takes one hour to dig a pit of meter dimension, while 'B' takes one and a quarter hour. 72 pits are required to be dug, then 'A' and 'B' together will complete the work in-days.(if they work 8 hours a day)

(a)
$$4\frac{1}{2}$$
 days (b) 5 days (c) $5\frac{1}{2}$ days (d) 6 days

81. A part has half of its length in mud 1/3 of its length in water and $3\frac{1}{2}$ m above the water the whole length of the part is

(b) 20 m (c) 25 m **(a)** 15 m (d) 27 m

82. If x + y = a and xy = b, then the value of

(b) $\frac{a^3 - 3ab}{b^3}$ (a) $a^3 - 3ab$ (d) $a^3 + 3ab$

83. The number $10^N - 1$ is divisible by 11 for

(a) Odd values of N (**b**) All value of N

- (c) Even values of N (d) No multiples of 11
- 84. A heap of coconuts is divided into groups of 2, 3 and 5, and each time one coconut is left over. The least number of coconuts in the heap is

(a) 41 **(b)** 31 (c) 51 (d) 61

- 85. 16 men or 24 women can do a piece of work in 20 days. The number of days needed to complete the job, if 20 men and 30 women are employed to do the same piece of work, is **(a)** 16 **(b)** 12 (**d**) 8
- 86. If a shopkeeper sells an item for Rs. 141 his loss is 6%. To earn a profit of 10% he should sell it for

(a) Rs. 155 (b) Rs. 160 (c) Rs. 165 (d) Rs. 170

(c) 10

- 87. The current population of a town is 10,000. If the population increases by 10% every year, then the population of the town after three year will be (a) 13,000 (b) 13,300 (c) 13,310 (d) 13,330
- 88. If selling price of 16 items is same as the cost price of 20 items, then there is a (a) loss of 20 % (b) loss of 25 % (c) gain of 20 % (d) gain of 25 %
- 89. In the given figure, line RT is drawn parallel to SQ. If $\angle QPS = 100^{\circ}$, $\angle PQS = 40^{\circ}; \angle PSR = 85^{\circ}$ and $\angle QRS = 70^{\circ}$ then $\angle QRT$ is

(a)
$$45^{\circ}$$
 (b) 65° (c) 85° (d) 90

90. A water tank is hemispherical at the bottom and cylindrical on top of it. The radius is 12 cm. If the total capacity is $3,312\pi m^3$, then the capacities of the portions are in the ratio

(a) 8 : 9 **(b)** 8 : 11 (c) 8 : 13 (**d**) 8 : 15



BIOLOGY

CHOOSE THE CORRECT OPTION :

- 91. Major requirement of protein in the body is for (a) energy (b) growth (c) repair (d) proper nourishment
- 92. Which of the following sets includes the bacterial disease ?

(a) Diphtheria, leprosy, plague

- (b) Malaria, leprosy, plague
- (c) Tetanus, tuberculosis, measles
- (d) Malaria, mumps, polimyelitis
- 93. Which of the following diseases is caused by a virus ? (a) Typhoid (b) Cholera
 - (c) Influenza (d) Diptheria
- 94. Jaundice is a disease of

(a) kidney

- (b) pancreas
- (c) liver (d) duodenum

95. How many species are believed to exist on Earth 106. Which of the following is propagated by means of at present time ? cuttings ? (a) 5,000 to 10,000 (a) Sugarcane (b) Approximately 100,000 (c) citrus (c) Approximately 500,000 107.Stem cuttings are commonly used for propagation in (d) Between 5 million and 30 million (a) rubber 96. Good soil is (c) sugarcane (a) Which allows the limited amount of water into it (b) Which allows to per collate the water slowly 108. Prokaryotic cell is one, which does not have from it (a) proper nucleus (c) Which allows to pass water very quickly from it (b) endoplasmic reticulum & mitochondria (d) Which holds whole of water into it (c) proper nucleus and most of cell organelles 97. Soil is composed of (d) cell wall (a) Mineral + Water + Air 109. The smallest organelles in a cell are (b) Mineral + organic matter + Air (a) Lysosomes (c) Mineral + organic matter + Air + water (c) Peroxysomes (d) Organic matter + water 98. Best source of renewable energy is 110. The Golgi complex plays a major role (a) Cattle (b) Petroleum (a) in digesting proteins and carbohydrates (c) Coal (d) Trees (b) in trapping light quanta an transforming them 99. Soil erosion can be prevented by into chemical energy (a) restricted human activity (c) in glycosidation of lipids and proteins of (b) good plant cover produce glycolipids and glycoproteins (c) checking movement of animals (d) as energy transferring organelles (d) wind screen alone 111.Lysosomes are known as "Suicidal bags" because of 100. CO_2 and O_2 balance in atmosphere is due to (a) Catalytic activity (a) photorespiration (b) photosynthesis (c) respiration (d) leaf anatomy (c) Parasitic activity 101. Young fruits are green but develop brilliant shade 112.Collenchyma differs from parenchyma in having of colour towards ripening because (a) cellulose walls (a) amount of sugar increases in them (b) vacuoles (b) amount of organic acids decreases in them (c) pectin deposits at corners (c) chloroplasts are degraded to carotenes and (d) living protoplasm xanthophylls 113. The first effect of adding fertiliser to a pond would (d) of ageing 102. Which would do maximum harm to a tree? most likely be to (a) The loss of all of its leaves (a) decrease the amount of phytoplankton (b) The loss of half of its branches (b) kill most bacteria (c) The loss of its bark (c) lower the compensation point (d) The loss of half of its leaves (d) increase the amount of phytoplankton 103.If all the tissues except xylem of main stem of a 114. The science of improving crop varieties is called plant are removed in a ring (a) hybridisation (a) the root dies first (c) introduction (b) the shoot dies first (c) the root and shoot will die at the same time 115.Growing two or more crops but in definite row (d) neither the root nor the shoot will die pattern is known as 104.Excertion means : (a) intercropping (a) removal of substances present in excess (c) mixed farming (b) formation of those substances that have some 116.Green revolution refers to role in the body (a) maintaining soil fertility (c) removal of such substances that have never (b) use of green plants for covering the earth been part of the body (d) All of these (c) development of new crop varieties which helped to overcome hunger 105.In which of the following plants vegetative (d) growing green plants to establish balance of reproduction takes places with the help of bulbils? nature (a) Colocasia (b) Zingiber (c) Agave (d) Vallisneria

(b) coffee

(d) All of these

(b) mangoes

(d) jasmine

(b) Spherosomes

(b) Hydrolytic activity

(d) Saprophytic activity

(b) selection

(d) plant breeding

(b) crop rotation

(d) mixed cropping

(d) Ribosomes

117. Which of the following i crop?	s an example o	of kharif
(a) Rice (b) Wheat (c) Gram (d)	Mustard
118.High milk yielding varieti	es of cows are	obtained
(a) hybridisation (folder	b) giving te	ermented
(c) giving medicine (d) cloning	
119.Formation of ozone hole is	maximum over	
(a) India (b) Africa (c) Antarctica (d)	Europe
120. Which pigment protects pl	ants from UV da	amage?
(a) Chlorophyll (b) Xanthophyll	C
(c) Phycocyanin (d) Carotenoids	
	J	
MENTAL A	BILITY	
CHOOSE THE CORRECT O	PTION :	
O(121) to 122 . Find the odd on		
121 (a) Rstww (b) Abccdd (c) Fohhkk (d) Ki	lmmnn
122 (a) RIH (b) XCB (b)	(\mathbf{d}) I ON (\mathbf{d}) M	NM
O_{123} to 124 · Choose the con	rect alternative	in place
of question mark.	reet alternative	in place
123.24 : 26 : : 15 : ?		
(a) 18 (b) 20 (c) 35 (d) -	45
124.16:63::?:48	<i>,</i> , , , , , , , , , , , , , , , , , ,	
(a) 10 (b) 12 (c) 14 (d)	18
(a) 10 (b) 12 (Q. In which of the following	c) 14 (d) alternative figu	18 ures, the
 (a) 10 (b) 12 (c) Q. In which of the following question figure is embedded 	c) 14 (d) alternative figured?	18 ures, the
 (a) 10 (b) 12 (c) Q. In which of the following question figure is embedded 	c) 14 (d) alternative figured?	18 ures, the
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 (a) 10 (b) 12 (c) (c)	c) 14 (d) (alternative figured) (d) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	18 ures, the words in oded in I are not
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126	.The code nu	umber used f	or Teacher.	
	(a) 5	(b) 8	(c) 9	(d) 3
127	.The code nu	umber for 'a'	:	
	(a) 5	(b) 8	(c) 9	(d) 3
128	.My friend:			
	(a) 2, 1	(b) 1,3	(c) 4, 2	(d) 3, 1
129	.The son is b	ousy:		
	(a) 8, 10, 5	, 7	(b) 10,5,8,9	
	(c) 10,3,8,7		(d) 4,10,8,2	
130	.If we write	123456789	1011121314	and so on
	then the 51	th digits of t	he number so	o formed will
	bc:	C		
	(a) 0	(b) 1	(c) 3	(d) 5
131	.Rohit is old	er than his s	ister by 641 c	lays his sister
	was born or	n Monday, th	ien on what d	ay was Rohit
	born?			•
	(a) Sunday	(b) Saturda	y(c) Friday	(d)
	Thursday			
			~	
Q.1	32 To 136 :	What will	come serially	y in place of
100	question ma	rk?		
132	.97, 61, 36, 2	20, 11, 7, ?	()	
	(a) 3	(b) 4	(c) 5	(a) 6
133	.1, 5, 13, 25,	?, 61	() 27	
	(a) 47	(b) 41	(c) 37	(d) 43
134	.Z, Y, W, T,	?, K, E	<pre>/</pre>	/ - \
	(a) M	(b) P	(c) R	(d) N
135	.8, 9, 17, 8, 2	25, 17, ? , 25	, 67	
	(a) 19	(b) 22	(c) 30	(d) 42
136	.87, 77, 58, 6	56, ?, 46, 90	() ==	
~	(a) 5/	(b) 56	(c) 55	(d) 54
Q.	Which figur	e will fit in p	place of quest	ion mark?
	\frown			
137				
				,
	 (H) 	\rangle		
	(a) $\sqrt{1}$	·	(b) / · · \	•
			$\downarrow \downarrow \downarrow \downarrow$,
~ 1			(d) / ` ' \	
Q.1	38 to 139	: Observe tl	he cubes giv	ren below &
	answer the	question.	•	
	K	$\sum K^{E}$	$\left(F \right)$	>
	A	B		
138	Which lette	r will be opp	osite to 'C'?	
	(a) A	(b) B	(c) D	(d) E
139	Which will	be the letter	opposite to 'H	3'? (D.E.
	(a) C	(D) D	(C) E	(a) F

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Q.140 to 142 : These questions are based on laby rinth given below. Note the directions as shown in the figure. With the help of the figure answer the questions



$Q_{1+3} = 0 + 7$. This are out one.					
145.(a) 341	(b) 176	(c) 165	(d) 112		
146. (a) 0010	11	(b) 1101011			
(c) 101101		(d) 10010			
147.(a) 312	(b) 756	(c) 978	(d) 354		

148.A typist has to type, 1 to 107 number one a typewriter. Then how many times he has to press the buttons of the typewriter? **(a)** 213 **(b)** 214 (c) 116 (d) 107 149.If ELEPHANT = 73, TIGER = 54 then CAMEL = ? **(a)** 36 **(b)** 32 (c) 29 (d) 27 Q.150.Which figure will replace the question mark? X × × ? × × × × × X × X (a) (b) × X (c)