SAMPLE PAPER-1

ACADEMIC SESSION : 2020-21

FOR CLASS IX MOVING STUDENT

Time : 11/2 Hr.

Negative Marking - 0.25

Maximum Marks : 60

GENERAL INSTRUCTIONS

- 1. Each question carry 1 marks.
- 2. Blank papers, clip boards, log tables, slide rule, calculators, mobile or any other electronic gadgets in any form is not allowed.
- 3. Write your Name and Roll No. in the space provided in the bottom of this booklet.
- 4. Before answering the paper, fill up the required details in the blank space provided in the answer sheet.
- 5. Do not forget to mention your roll number neatly and clearly in the blank space provided in the answer sheet.
- 6. No rough sheets will be provided by the invigilators. All the rough work is to be done in the blank space provided in the question paper.
- 7. In case of any dispute, the answer filled in the OMR sheet available with the institute shall be final.
- 8. Post exam Answer Key will be declared. Correction in Answer Key will be accepted till next 36 hours after which no correction will be entairtained.



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1.	Twelve years hence a m he was twelve years ago is (A) 20 years (C) 28 years		7.	A certain sum of mor a compound interest in eight times in : (A) 20 years	-	
2.	If $2^{x} - 2^{x-1} = 4$ then x^{x} is (A) 1	equal to (B) 27	8.	(C) 15 years A, B and C can complete	(D) 13 years a work, working alone	
	(C)8	(D) None		•	mplete the work, what	
3.	Which rational number	r is exactly in middle		fraction of the work wou	ld have done by B ?	
	between the two rationa	I numbers $\frac{1}{3} \& \frac{1}{2}$		(A) $\frac{4}{13}$	(B) $\frac{1}{2}$	
	(A) $\frac{5}{12}$	(B) $\frac{5}{6}$		(C) $\frac{1}{3}$	(D) <u>6</u> 13	
	12	0	9.	Toffees are bought at the rate of 4 for a rupee.		
	(C) $\frac{1}{12}$	(D) $\frac{3}{5}$		To gain 60% they must (A) 2.5 for a rupee (C) 6 for a rupee	(B) 5 for a rupee (D) 8 for a rupee	
4.	Simplify: $\frac{\sqrt{\sqrt{81} + \sqrt{256}}}{\sqrt{160}}$	$\overline{\overline{0}+39}$	10.	The mean weight of a c	lass of 34 students is	
4.	Simplify: $\frac{\sqrt{\sqrt{81}} + \sqrt{256}}{\sqrt{\sqrt{169}} - \sqrt{49}}$	$\overline{\overline{9}}$ + 39 $\overline{\overline{9}}$ - 2	10.	The mean weight of a c 46.5 kg. If weight of the t		
4.	(A) 6	(B) 8	10.	-	eacher is included, the	
4.	, , , , , , , ,	-	10.	46.5 kg. If weight of the t	eacher is included, the	
4. 5.	(A) 6	(B) 8 (D) 2	10.	46.5 kg. If weight of the t mean weigth rises by 50	eacher is included, the	
-	(A) 6 (C) 4 If $a^{x} = b$, $b^{y} = c$ and $c^{z} = a$ is :	(B) 8 (D) 2 a, then the value of xyz	10.	46.5 kg. If weight of the to mean weigth rises by 50 of the teacher is –	eacher is included, the 0 gm. Then the weight	
-	(A) 6 (C) 4 If $a^x = b$, $b^y = c$ and $c^z = a$ is : (A) 0	(B) 8 (D) 2 a, then the value of xyz (B) 1	10.	46.5 kg. If weight of the to mean weigth rises by 50 of the teacher is – (A) 175 kg.	eacher is included, the 0 gm. Then the weight (B) 62 kg.	
-	(A) 6 (C) 4 If $a^x = b$, $b^y = c$ and $c^z = a^z$ is : (A) 0 (C) $x + y + z$	(B) 8 (D) 2 a, then the value of xyz (B) 1 (D) abc	10.	46.5 kg. If weight of the to mean weigth rises by 50 of the teacher is – (A) 175 kg.	eacher is included, the 0 gm. Then the weight (B) 62 kg. (D) 72 kg.	
-	(A) 6 (C) 4 If $a^x = b$, $b^y = c$ and $c^z = a^z$ is : (A) 0 (C) $x + y + z$ The 5% of any sum equ	(B) 8 (D) 2 a, then the value of xyz (B) 1 (D) abc		 46.5 kg. If weight of the termean weigth rises by 50 of the teacher is – (A) 175 kg. (C) 64 kg. Focal length of a conversion power will be : (A) –10 D 	eacher is included, the 0 gm. Then the weight (B) 62 kg. (D) 72 kg. ex lens is 100 cm, its (B) – 1 D	
5.	(A) 6 (C) 4 If $a^x = b$, $b^y = c$ and $c^z = a$ is : (A) 0 (C) $x + y + z$ The 5% of any sum equ The sum will be -	 (B) 8 (D) 2 a, then the value of xyz (B) 1 (D) abc al to 15% of Rs. 600 . 		 46.5 kg. If weight of the tomean weigth rises by 50 of the teacher is – (A) 175 kg. (C) 64 kg. Focal length of a conversion of the teacher is – 	eacher is included, the 0 gm. Then the weight (B) 62 kg. (D) 72 kg. ex lens is 100 cm, its	
5.	(A) 6 (C) 4 If $a^x = b$, $b^y = c$ and $c^z = a^z$ is : (A) 0 (C) $x + y + z$ The 5% of any sum equ The sum will be - (A) Rs. 1500	 (B) 8 (D) 2 a, then the value of xyz (B) 1 (D) abc al to 15% of Rs. 600 . (B) Rs. 1200 	11.	 46.5 kg. If weight of the termean weigth rises by 50 of the teacher is – (A) 175 kg. (C) 64 kg. Focal length of a conversion power will be : (A) –10 D (C) +1 D 	eacher is included, the 0 gm. Then the weight (B) 62 kg. (D) 72 kg. ex lens is 100 cm, its (B) – 1 D (D) 0.1 D	
5.	(A) 6 (C) 4 If $a^x = b$, $b^y = c$ and $c^z = a$ is : (A) 0 (C) $x + y + z$ The 5% of any sum equ The sum will be -	 (B) 8 (D) 2 a, then the value of xyz (B) 1 (D) abc al to 15% of Rs. 600 . 		46.5 kg. If weight of the termean weigth rises by 50 of the teacher is – (A) 175 kg. (C) 64 kg. Focal length of a conver- power will be : (A) –10 D (C) +1 D Which of the following is	eacher is included, the 0 gm. Then the weight (B) 62 kg. (D) 72 kg. ex lens is 100 cm, its (B) $- 1 \text{ D}$ (D) 0.1 D s not a unit of force ?	
5.	(A) 6 (C) 4 If $a^x = b$, $b^y = c$ and $c^z = a^z$ is : (A) 0 (C) $x + y + z$ The 5% of any sum equ The sum will be - (A) Rs. 1500	 (B) 8 (D) 2 a, then the value of xyz (B) 1 (D) abc al to 15% of Rs. 600 . (B) Rs. 1200 	11.	 46.5 kg. If weight of the termean weigth rises by 50 of the teacher is – (A) 175 kg. (C) 64 kg. Focal length of a conversion power will be : (A) –10 D (C) +1 D 	eacher is included, the 0 gm. Then the weight (B) 62 kg. (D) 72 kg. ex lens is 100 cm, its (B) – 1 D (D) 0.1 D	

13.	The lens which produc	ces small, erect, virtual	20.	-	below, the potential drop
	(A) concave lens	(B) plano convex		across 4 ohm resisto	Dr IS :
	(C) convex lens	(D) none of these		3Ω	<u>4Ω</u>
14.	How many newtons are (A) 10 ⁴ (C) 10 ⁻⁵	e equal to 1dyne ? (B) 10⁵ (D) 10³			 13Ω
15.	If a wave completes 24	4 cycles in 10s, then the			
	frequency of the wave	is:		(A) 2.6 V	(B) 1.2 V
	(A) 30 Hz	(B) 2.4 Hz		(C) 0.4 V	(D) 9.6 V
	(C) 24 Hz	(D) 12 Hz			
			21.	-	ng the following is called
16.	A calorimeter full of hot	water is hang in vacuum.		hydrolith?	
	It will cool by :			(A) NaH	(B) KH
	(A) convection	(B) radiation		(C) CaH ₂	(D) MgH ₂
	(C) conduction	(D) Not cool at all	22.	In the reaction 2AL +	$- \operatorname{Cr}_2O_3 \longrightarrow 2\operatorname{Cr} + \operatorname{Al}_2O_3,$
			<i>LL</i> .	oxidising agent is -	$O_2O_3 \longrightarrow ZO1 + A_2O_3,$
17.	How many electrons a	re there in one coulomb		(A)Al	$(B) \operatorname{Cr}_2O_3$
	charge?			(C) Cr	$(D) Al_2O_3$
	(A) 6.25 × 10 ⁶	(B) 6.25 × 10 ¹⁸			
	(C) 6.25 ×10 ⁹	(D) 6.25 × 10 ¹⁵	23.	Which of the followin	ig is a monomer of PVC ?
				(A) Ethylene	
18.	The planet closest to t	he sun is :		(B)Tetrafluoro ethyler	ne
	(A) mars	(B) Jupiter		(C) Chloroethane	
	(C) mercury	(D) earth		(D) None of the above	e
			24.	Which of the followin	g metal has been used for
19.	Match the following :				use it has resistance to
	(1) Conductor	(a) plastic		corrosion by sea wat	
	(2) Charge at rest	(b) current electricity		(A) Cu	(B) Ni
	(3) Moving charge	(c) electrostatics		(C) W	(D) Ti
	(4) Insulator	(d) copper	25.	When iron is heated w	vith chlorine gas, the prod-
	$(A) (1) \rightarrow (c), (2) \rightarrow (d)$		Z J.	uct of the reaction is	
	$(B) (1) \rightarrow (d), (2) \rightarrow (c)$., ., ., .,		(A) FeCl ₂	- (B) Fe ₃ Cl ₄
	$(C) (1) \to (c), (2) \to (d), (3) \to (b), (4) \to (a)$			(C) FeCl ₃	
	$(D) (1) \rightarrow (d), (2) \rightarrow (c)$	(0) , (0) , (4) \rightarrow (a)		(D) No reaction takes	s place
		Space For I	Rough		

27.	 (A) Toluene (C) Kerosene oil When magnesium ribbor of oxygen then a white po powder is - (A) magnesium phospha (B) magnesium oxide 	owder is formed. White	34.	 (C) Golgi bodies What is the function o (A) Produce sperm (B) Produce male horr 	
27.	When magnesium ribbor of oxygen then a white po powder is - (A) magnesium phospha	n is heated in presence owder is formed. White	34.	(A) Produce sperm (B) Produce male horr	
	of oxygen then a white po powder is - (A) magnesium phospha	owder is formed. White		(B) Produce male horr	
	(B) magnesium oxide			(C) Both A & B (D) None of these	none - testosterone
			35.	Bacterial genome is c	alled :
	(C) magnesium carbona	te		(A) Nucleus	(B) Nucleolus
	(D) Both (B) and (C)			(C) Nucleoid	(D) None
28.	In destructive distillation	on of wood, wood is	36.	Locate the malarial pa	irasite :
	heated-			(A) Entamoeba	(B) Trypanosoma
	(A) in the absence of air			(C) Paramoecium	(D) Plasmodium
	(B) in the limited supply of air.		~=		
	(C) in the excess supply	of air.	37.	Viral envelope is made (A) Proteins	e up of : (B) Lipids
	(D) none of these			(C) Carbohydrates	(D) All of the above
29.	Which of the following	substances is used in		(-)	(_)
	refining of petroleum ?		38.	The general formula for carbohydrate is	
	(A) NaCl	(B) NaOH		$(A) C_n H_{2n} O_{n-1}$	
	$(C) Na_2 CO_3$	(D) NaHCO ₃		(B) $C_n H_{2n} O_n$ (C) both of them are c	orrect
	The element which does	not get oxidized when		(D) none of them is co	
	heated in air, is - (A) iron	(B) gold	39.	The high yielding d	warf variety of wheat
	(C) calcium	(D) magnesium		developed by Dr. M.S.	-
				(A) Hira – moti	
	The finger like stru			(B) C 306	
	mitochondria are called			(C) Sharbati sonara (D) Arjun	
	(A) Grana	(B) Microvilli			
	(C) Villi	(D) Cristae	40.	Food for cattle including	ng more fibre content is
32.	Ribosomes are made u	oof:		called as :	
	(A) Fat and proteins			(A) Roughage	
	(B) Proteins and RNA			(B) Concentrate (C) Both of above	
	(C) Lipids and proteins			(D) None of the above	
	(D) Proteins and DNA				

41.	The Horse latitudes are - (A) The regions lying between 5°N and 5°S (B) The regions of low atmospheric pressure (C) The regions of calm and light variable winds (D) The regions of moist air and unstable weather conditions	47.	Population composition means (A) population structure. (B) population density. (C) population distribution. (D) population growth. Who was the founder of Congress ?	
42.	Which Edible crops do not need more water : (A) Rice (B) Wheat (C) Millet (D) Oilseeds		(A) A.O. Hume (C) Lala Lajpat Rai	(B) W. C Bannerjee (D) Litten
		49.	Most of the year, the w	eather in Chennai is
43.	Physical capital includes the items : (A) Raw material and money (B) Tools, Machines & Building (C) Air, Water & Gas (D) All the above		(A) hot and humid. (B) cold and pleasant. (C) humid with heavy c (D) hot and cold.	lownpour.
44.	Which of the following crop's production increased in India by Green Revolution : (A) Mustard & Groundnut	50.	The sun shines vertica (A) March 21 (C) June 21	Illy over the equator on : (B) December 22 (D) all days
	(B) Sugarcane and Sunflower	Direc	tions : (51 to 53) Find th	e missing terms :
	(C) Wheat and Rice (D) Tea and Coffee	51.	18, 35, 69, 137, ?	
		51.	(A) 270	(B) 273
45.	A government is federal or unitary on the basis of relation between the :		(C) 271	(D) 272
	(A) Three organs of government	52 .	1 BR, 2 EO, 6 HL, 15	KI, ?
	(B) Centre and States		(A) 22 NF	(B) 31 NF
	(C) Legislature and the Executive(D) Constitution and the States		(C) 31 NE	(D) 28 NF
46.	The part of the Constitution that reflects the mind and ideals of the framers is : (A) Directive Principles	53.	7114912854154?	
	(B) Fundamental Rights (C) Preamble (D) Citizenship		(A) 36 (C) 25	(B) 7 (D) 0

54. If THRASH is coded as UGSZTG how will HEAD 59.

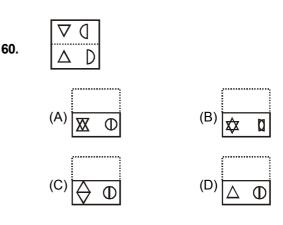
be written in that code?	
(A) IECD	(B) GDZC
(C) IDBC	(D) GDBC

If in the word MANORANJAN the first letter is interchanged with the last letter, the second letter is interchanged with the ninth letter and so on, which letter would come after the letter which is fourth from your left in the newly formed word.

(A) R	(B)A
(C) N	(D) J

- 56. If A + B means A is the brother of B, A B means A is the father of B, A × B means A is the wife of B, then P × R S + T means (A) P is the mother of T.
 (B) T is the sister of P.
 - (C) R is the grand father of T.
 - (D) T and R are sisters.
- Direction : (57) In the following question choose the missing word in place of sign ? On the basis of the relationship between the words given on the left side of sign ::
- 57. Pakistan : Rupees : : Italy: ? (A) Rupees (B) Taka (C) Yen (D) Lira
- 58. If '20 10' means 200, '8 ÷ 4' means 12, '6 × 2' means 4 and '12 + 3' means 4, then 100 10 × 1000 ÷ 1000 + 100 × 10 = ?
 (A) 1090 (B) 0
 (C) 1900 (D) 20

- If the sixth day of a month is fourth day after Sunday then which day of the weak will be on 19th day of that month -
 - (A) Friday(B) Wednesday(C) Saturday(D) Tuesday
- Direction : (60) A square transparent sheet with a pattern is given in figure X. Find out from amongst the alternatives as to how the pattern would appear when the transparent sheet is folded at the dotted line.



SAMPLE PAPER-2

ACADEMIC SESSION : 2020-21

FOR CLASS IX MOVING STUDENT

Time : 11/2 Hr.

Negative Marking 0.25

Maximum Marks : 60

GENERAL INSTRUCTIONS

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- 2. Blank papers, clip boards, log tables, slide rule, calculators, mobile or any other electronic gadgets in any form is not allowed.
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 If the difference of the square of two consecutive rational numbers is 29. Then one of the number is -

(B) 3125

(A) 28	(B) 13
(C) 14	(D) 16

2. If
$$(1^2 + 2^2 + 3^2 + 4^2 + 5^2)^2 = \frac{1}{P}$$
 then P is_____

(A)
$$\frac{1}{3125}$$

(C) $\frac{1}{3025}$ (D) 3025

- A man suffers a loss of 25% by selling articles at the rate of Rs. 432 per dozen. The cost price of the article per dozen was :
 (A) Rs. 45
 (B) Rs. 48
 (C) Rs. 476
 (D) Rs. 576
- The compound Interest on Rs. 25,600 for 2 years at 6¼ % per annum is :
 (A) Rs.3000 (B) Rs. 3300
 (C) Rs. 3600 (D) Rs. 4000
- 5. Evaluate $\sqrt{41-\sqrt{21+\sqrt{19-\sqrt{9}}}}$ (A) 3 (B) 6 (C) 5 (D) 6.4
- 6. Evaluate $\left(\frac{1}{2}\right)^{-3/2} \div \left[\left(\frac{1}{2}\right)^3\right]^{-1/2}$

(A) $\left(\frac{1}{2}\right)^{-2}$ (B) $\left(\frac{1}{2}\right)^{-3/5}$ (C) 0 (D) 1

A cylindrical rod whose height is 8 times of its radius is melted and recast into spherical balls of same radius. The number of balls will be :

 (A) 4
 (B) 3
 (C) 6
 (D) 8

A student has to secure 35% marks to pass the examination. If he gets 120 marks and fails by 20 marks, find the maximum marks set for the examination :

(A) 1000	(B) 400
(C) 350	(D)700

If the mean of y and
$$\frac{1}{y}$$
 is M, then the mean of y³ and

$$\frac{1}{y^3}$$
 is :

8.

9

(A)
$$M \frac{(M^2 - 3)}{2}$$
 (B) M (4M²-3)

(C)
$$M^3$$
 (D) 2M (4 M^2 –3)

10. If
$$\frac{5x}{4} + \frac{6-x}{8} = \frac{6(x+3)}{3} - \frac{1}{6}$$
, then x = ?
(A) $-\frac{121}{22}$ (B) $\frac{121}{12}$

(C)
$$\frac{212}{21}$$
 (D) $-\frac{122}{21}$

If the reflected ray is at an angle of 90° to the incident ray, then the angle of incidence of a ray is :
 (A) 50°
 (B) 60°

(A) 50°	(B) 60°
(C) 45°	(D) 90°

- 12. External forces are : (A) always balanced
 - (B) never balanced
 - (C) may or may not be balanced
 - (D) none of these
- A series of ocean waves, each 5.0 m from crest to crest, are moving past the observer at a rate of 2 waves per second. What is the velocity :
 (A) 2.5 m/s
 (B) 5.0 m/s
 (C) 8.0 m/s
 (D) 10.0 m/s

- 14. If I is the current through a wire and e is the charge of electron, then the number of electrons in t sec. will be given by
 - (A) $\frac{le}{t}$ (B) Ite (C) $\frac{e}{t}$
 - (D) $\frac{\text{lt}}{2}$
- 15. 1 dyne is equal to : (A) 980 g wt (B) 980 kg wt (C) $\frac{1}{980}$ g wt (D) None of these
- 16. Atmospheric pressure on the earth is unable to crush humans because : (A) humans are the most powerful living beings

on the earth

(B) pressure exerted from the inside of the body cells is less than the atmospheric pressure there (C) pressure exerted from the inside of the body cells is more than the atmospheric pressure there

(D) pressure exerted from the inside of the body cells equals the atmospheric pressure there

- 17. A book of 10 N is placed on the table. The force exerted by the surface of the table on the book will be :
- (A) 380 N (B) 10 N (C) 20 N (D) 100 N 18. Which of the following is not a unit of force ? (B) Kg m s⁻² (A) Dyne (C) g cm s⁻² (D) Kg m² s⁻²
- 19. If the distance between the object and its image in a plane mirror is 14.6 cm, then the distance of the object from the mirror is (A) 14.6 cm

(A) 14.6 cm	(B) 7.3 Cm
(C) 29.2 cm	(D) 10 cm

20. Commercial unit of electrical energy is : (A) Calorie (B) Kilowatt hour (C) Joule (D) All of them

- 21. The metal which can displace zinc from its salt solution is -(A) Mg (B) Fe
 - (C) Pb (D) Cu Which of the following has the highest percentage of carbon? (A) Peat (B) Lignite

(D)Anthracite (C) Bituminous

22.

- Which of the following is an example of 23. amphoteric oxide? (A) ZnO (B)CO
- $(C) Fe_2O_3$ (D) FeO 24. The head of a safety match contains (A) antimony trisulphide and potassium chlorate (B) antimony chloride and potassium sulphide (C) antimony carbonate (D) potassium sulphide
- Which one of the following statements pertaining 25. to the general properties of metals is wrong? (A) Most of the metals form basic oxides. (B) All metals displace hydrogen from acids. (C) All metals except Hg are found in solid state at room temperature.

(D) Metals form alloys with other metals.

26. Main constituents of coal gas are - $(B) CH_4, CO_2, O_2$ $(A) H_2 O, C_2 H_6, O_2$ $(C) CH_4, H_2, CO (D) C_2 H_6, N_2, O_2$

- 27. LPG mainly contains : (A) butane and isobutane (B) methane (C) methane and ethane (D) hydrogen, methane and ethane
- Kavita, Mahima and Shreya were doing an 28. experiment in which water was to be heated in a beaker. Kavita kept the beaker in innermost black part of the candle flame. Mahima kept the beaker near the wick in the yellow part and Shreya kept the beaker in the outermost part of the flame. Whose water will get heated in a shorter time ? (A) Kavita (B) Mahima

(D) Both Kavita and (C) Shreya

29.	The kind of fabric that can in a laboratory is : (A) silk (C) cotton	(B) nylon (D) both (A) and (B)	36.	Bacteriophage is : (A) Bacteria which kills (B) Bacteria which kills (C) Virus which attack (D) None of the above	s viruses
30.	Fabric polycot is prepar (A) polyester with silk (B) polyester with nylon (C) polyester with cotton (D) polyester with silk a	n	37. 38.	The most busy part of (A) Heart (C) Liver The Sex of the child is	(B) Eye (D) Ear
31.	Manures are beneficial (A) They increase soil e (B) They increase water (C) They are water solu (D) They are required in	erosion holding capacity of soil ble in nature	39.	 (A) Health of mother ar (B) Male and female bo (C) Female (D) Male 	nd father oth
32.	Green revolution means (A) use of green manure (B) Growing of more crops (C) Use of high yeild varieties (D) Green vegetation		33.	 Removal of weeds is necessary for plant growth because weeds : (A) compete with crop for nutrition (B) cause diseases in crop (C) delay the harvesting time of the crop (D) attract the insects and birds towards the 	
33.	Diagnostic test for AIDS is : (A) Widal Test (B) Lepamin test (C) ELISA Test (D) Biopsy		40.	crop NPK stand for : (A) Nitrogen, Phospho (B) Nitrogen, Potassiun (C) Nitrogen, Phospho (D) Nitrogen, Potassiun	m and Calcium rus and Potassium
34.	World climate is threa concentration of : (A) oxygen (C) nitrogen	(B) carbon dioxide (D) water vapours	41.	Shahjahanabad consis largest and grandest n (A) Jama Masjid (B) Re (C) Chandni Chowk	•
35.	Bishnoi community peop protecting : (A) Khejri tree (C) Pinus tree	(B) Salt tree (D) Teak tree	42.	Woods despatch supp (A) Orientalist (C) Muslims	

43.	The period of Congress Phase" is : (A) 1885–1900 (C) 1885–1903	s known as 'Moderate (B) 1885–1901 (D) 1885–1905	Direct	ions : (51 to 52) F 25 17 32 83 26 ?	ind the missing terms : 41 11 31
44.	First cotton mill in India (A) Delhi (C) Madras	was established at - (B) Bombay (D) Surat		(A) 26 (C) 34	(B) 25 (D) 38
45.	Hiuen Tsang had come to (A) Asoka (C) Samudragupta	India during the reign of : (B) Chadragupta-II (D) Harsa Vardhan	52.	(A) qsmsq (C) smmqq	q _ m _ ssqmm _ s (B) qmsmq (D) sqmss
46.	Sati system was prohihit in the year : (A) 1827 (C) 1829	ted by William Bentinck (B) 1828 (D) 1830	53.	-	ers amongst the numbers 7 to ich are exactly divisible by 9 (B) 1 (D) 3
47.	In British period the Sup established under which (A) Pitt's India Act (B) India Council Act 18 (C) Regulating Act 1773 (D) Indian Council Act 1	n Act – 60 3	54.	in different poisit numbers on each	puestion dice has been shown ton. Study the pattern of the face of it and find out the value m four alternatives given -
48.	Who is known as the fath (A) Pt. Jawahar Lal Nehru (B) Krishna Menon (C) Sardar Vallabhbhai P (D) Bhimrao Ambedkar	L	Direct	(A) 1 (C) 3 ions : (55 to 56) F	(B) 2 (D) 5 (D) the missing terms :
49.	The joint sessions of Lok are summoned by the : (A) Speaker of Lok Sabl (B) President (C) Leader of the Major (D) Ministry of Paraliam	ha ity party	55.	55, 210, ?, 820, 7 (A) 465 (C) 410	(B) 420 (D) 515 $(D) 515$
50.	Which one of the for 'Pittsburg of India' ? (A) Baroda (C) Jamshedpur	llowing in known as (B)Rourkela (D)Durgapur	56.	(A) 47 (C) 37	(B 45 (D) 35

57. Which letter should be ninth letter to the left of ninth letter from the right, if the first half of the alphabet series is reversed ?
(A) D
(B) E
(C) F
(D) I

7 63 2 14 ? 9 30 15	
(A) 33 (C) 135	

59.

60.

58. Pointing to a person, Rohit said to Neha, "His mother is the only daughter of your father. "How is Neha related to that person ?
(A) Aunt
(B) Mother

(C) Daughter	(D) Wife
(C) Daughter	(D) whe

Find out the two signs to be interchanged for making following equation correct : $3 - 9 \times 27 + 9 \div 3 = 3$

(B) 145 (D) 18

(A) + and –	(B) × and +
(C) × and ÷	(D) × and –

SAMPLE PAPER-3

ACADEMIC SESSION : 2020-21

FOR CLASS IX MOVING STUDENT

Time : 1½ Hr.

Negative Marking 0.25

Maximum Marks : 60

GENERAL INSTRUCTIONS

- 1. Each question carry 1 marks.
- 2. Blank papers, clip boards, log tables, slide rule, calculators, mobile or any other electronic gadgets in any form is not allowed.
- 3. Write your Name and Roll No. in the space provided in the bottom of this booklet.
- 4. Before answering the paper, fill up the required details in the blank space provided in the answer sheet.
- 5. Do not forget to mention your roll number neatly and clearly in the blank space provided in the answer sheet.
- 6. No rough sheets will be provided by the invigilators. All the rough work is to be done in the blank space provided in the question paper.
- 7. In case of any dispute, the answer filled in the OMR sheet available with the institute shall be final.
- 8. Post exam Answer Key will be declared. Correction in Answer Key will be accepted till next 36 hours after which no correction will be entairtained.



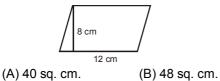
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Tel.:(0744) 2425408 Email: edge@vibrantacademy.com Website : edge.vibrantacademy.com Gold is 19 times as heavy as water and copper 6. is 9 times as heavy as water. In what ratio should these be mixed to get an alloy 15 times as heavy as water ?

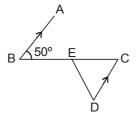
(A) 1 : 1	(B) 2 : 3
(C) 1 : 2	(D) 3 : 2

As shown in figure, the distance between parallel sides of parallelogram is 8 cm and the 7. length of one of the side is 12 cm. What is the area of parallelogram ?



(C) 20 sq. cm. (D) 96 sq. cm.

3. In the figure given below, BA || DC and EC = ED, the measure \angle BED is :



(A) 80° (B) 50° (C) 100° (D) 105°

4. If $\frac{5x}{4} + \frac{6-x}{8} = \frac{6(x+3)}{3} - \frac{1}{6}$, then x = ? (A) $-\frac{121}{22}$ (B) $\frac{121}{12}$

(C) $\frac{212}{21}$ (D) $-\frac{122}{21}$

A cylindrical rod whose height is 8 times of its radius is melted and recast into spherical balls of same radius. The number of balls will be :

 (A) 4
 (B) 3
 (C) 6
 (D) 8

A student has to secure 35% marks to pass the examination. If he gets 120 marks and fails by 20 marks, find the maximum marks set for the examination :

(A) 1000	(B) 400
(C)350	(D)700

In selling an article for Rs. 76, there is a gain of 52%. The gain by selling that for Rs. 74 is : (A) 50% (B) 48% (C) 46% (D) 44%

Adjacent angles of a parallelogram are in the ratio of 2 : 7, their values will be
(A) 20°, 160°
(B) 30°, 150°
(C) 40°, 140°
(D) 60°, 120°

- If A : B = $1\frac{1}{2}$: $3\frac{1}{2}$; B : C = $5\frac{1}{4}$: $7\frac{1}{2}$, then A : B : C is : (A) 5 : 7 : 12 (B) 5 : 7 : 10 (C) 3 : 7 : 10 (D) 3 : 7 : 12
- **10.** If x% of $\frac{1}{y} = 16\frac{2}{3}$ % of $\frac{1}{150}$, then what percent of y is x :

(A)
$$11\frac{1}{9}\%$$
 (B) $9\frac{1}{11}\%$
(C) 10% (D) 9%

On a full moon day, the :

 (A) moon lies in between the Earth and the Sun
 (B) Earth lies in between the moon and the Sun
 (C) Sun lies in between the Earth and the moon
 (D) Sun lies at the top of moon and earth

 The number of oscillations per second is called the

 (A) time period
 (B) amplitude
 (C) frequency
 (D) displacement

(Space For Rough Work)

9.

13.	The outermost layer of (A) Mantle (C) Crust	f the earth is called : (B) Core (D) Centre	20.	In the given figure, which point represents the mean position of the pendulum :				
14.	The number of satellites (A) one (C) three	of Venus is : (B) two (D) zero						
15.	Which of the following	is not a characteristic of		6 9	ОВ			
	image formed by a pla	ne mirror :		A	D			
	(A) Size of image = siz	e of object		(A)A	(B) B			
	(B) Distance of image f	rom mirror = distance of		(C) C	(D) (B) and (C) both			
	object from mirror		04					
	(C) we cannot obtain t	he image on the screen	21.		ne in luminous zone is :			
	(D) Image is formed or	n the same side as that		(A) blue (C) yellow	(B) red (D) black			
	of object			(_) 2.201				
			22.	Carbonisation is :				
16.		ween two parallel plane		(A) formation of carbon dioxide.				
	-	sides facing each other.		(B) formation of carbon-monoxide.				
	Number of images form			(C) burning of coal in presence of oxygen(D) conversion of dead vegetation into coal.				
	(A) 1	(B)2						
	(C) infinite	(D) zero	23.	Which of the followir	ng substances is used in			
17.	Correct power rating of	a bulb used in our country		refining of petroleum	?			
	(India) is :			(A) NaCl	(B) NaOH			
	(A) 100 W-100 volt	(B) 100 W-1000 volt		$(C)Na_2CO_3$	(D) NaHCO ₃			
	(C) 100 W - 220 volt	(D) 100 W-240 volt	24.	To identify what type o	of plastic a particular prod-			
18.	Human body temperat	ture is normally :	27.		ers have been allotted to			
	(A) 32° F	(B) 98.6° F			plastics. Number three is			
	(C) 212° F	(D) 98° C		allotted to -				
19.	Ultrasonic, infrasonic a	nd audible waves travel		(A) PET	(B) PP			
	through a medium with speeds $\boldsymbol{v}_{\!_{u}},\boldsymbol{v}_{\!_{i}}$ and $\boldsymbol{v}_{\!_{a}}$			(C) PVC	(D) PS			
	respectively, then :		25.	Main constituents of	coal das are -			
	(A) $v_u < v_i < v_a$ (C) $v_u = v_i = v_a$	(B) $v_u > v_i > v_a$ (D) $v < v_i < v_a$	£J.	(A) H_2O , C_2H_8 , O_2	(B) CH_4 , CO_2 , O_2			
	$(\mathbf{U}) \mathbf{v}_{u} - \mathbf{v}_{i} - \mathbf{v}_{a}$	(D) $v_i < v_a < v_u$		$(C) CH_4, H_2, CO$	$(D) C_{2}H_{6}, N_{2}, O_{2}$ (D) C_{2}H_{6}, N_{2}, O_{2}			
				7 2	· · 2 o [.] 2′ 2			
		(Space For I	≺ougn \	(VOľK)				

26.	Tungsten is used in el (A) it has high melting (B) it is metallic. (C) it has high tensile (D) it has high density	strength	35.	 35. Bacteriophage is : (A) Bacteria which kills organisms (B) Bacteria which kills viruses (C) Virus which attack bacteria (D) None of the above 				
27.	comes out f (A) Petroleum (C) Crude oil	(B) Natural gas (D) Residual oil	36.	Weed represents : (A) plant other than cro (B) a type of bacteria (C) crop yield (D) a toxic chemical	p plant			
28.	Nylon -66 is made up o (A) hexamethylene di (B) hexamethylene di (C) urea and acetic ac (D) None of these	amine & adipic acid amine & acetic acid	37. 38.	Red Data Book is publi (A) IUCN (C) WWF Areas for the protection	(B) IUPAC (D) GSPC			
29.	A mixture of mustarc separated by - (A) Filtration	(B) Separating funnel		and natural resources a (A) biosphere (C) ecoshpere	are called (B) national parks (D) ecosystem			
30.	 (C) Distillation Non-metal used in pur (A) nitrogen (C) sulphur 	(D) Sublimation ification of water is : (B) oxygen (D) chlorine	39.	An example of a cell in variable in shape is (A) brain cell (C) skin cell	the human body that is (B) hair cell (D) white blood cell			
31.	Beetroot is grown for : (A) flower (C) gum	(B) leaves (D) Sugar	40.	Which trait is not helpful (A) Streamlined body (B) Large pupils of the (C) Gills				
32.	Humus is a (A) chemical fertiliser (B) dead organic matte (C) dry leaves (D) combination of soi		41.	 (D) Beautiful colour of t During the British period established under whic (A) Pitt's India Act (B) India Council Act 18 	the Supreme Court was h Act -			
33.	Energy food is : (A) protein (C) vitamin	(B) fat (D) minerals	42.	 (C) Regulating Act (D) Indian Council Act 1 More labour is required 	892			
34.	TB is caused by : (A) bacteria (C) protozoa	nin (D) minerals aused by : eria (B) virus		(A) Shifting cultivation (C) Plantation	(B) Horticulture (D) Nomadic herding			

43.	In which year Perma	anent Settlement was		? 4 52	
	(A) 1793	(B) 1783		45 11 43	
	(C) 1773	(D) 1763	52.	67 23 28	
44.	Who introduced the M	ahalwari Settlement ?		25 16 37	
	(A) Cornwallis	(B) Thomas Munro		(A) 3	(B) 2
	(C) Holt Mackanzie	(D) Alexander Read		(C) 5	(D) 6
45.	Sati system was prohih in the year :	ited by William Bentinck	Direct		enn diagrams given in the
	(A) 1827	(B) 1828		alternatives best r	epresents the relation
	(C) 1829	(D) 1830		between the given ite	ms?
46.	-	nimal was their on Tipu	53.	Boys, Students, Play	vers
	sultan's flag ?				
	(A) Lion	(B) Elephant		(A) (A)	(B) ((O))
	(C) Tiger	(D) Horse		\bigcirc	
47.	•	sted of one of the		$\langle \mathcal{A} \rangle$	\sim
	largest and grandest r	•		(C)	
	(A) Jama Masjid (B) Ro			00	
	(C) Chandni Chowk	(D) Dargah	54.	A baby who was born	on 29th Feb. 1896, when
48.	Woods despatch supp	orted -		did he celebrate his f	ïrst birthday.
	(A) Orientalist	(B) Anglicist		(A) 28th Feb. 1897	(B) 29th Feb. 1900
	(C) Muslims	(D) None		(C) 29th Feb. 1904	(D) 20th Feb. 1908
49.		owing states, Kolar gold	55.	Which interchange	of signs will make the
	mines are located :			following equation tru	
	(A) Kerala	(B) Karnataka		12 – 3 × 2 ÷ 18 + 6 =	
	(C) Andhra Pradesh	(D) Tamil Nadu		(A) ÷, –	(B) ÷, +
50.	Birsa died in 1900 due	to which disease :		(C) ×, –	(D) +, -
	(A) Jaundice	(B) Cholera		(-) ,	(-) ,
	(C) Maleria	(D) T.B.	56.	In a row of five perso	ons, A is next to B.E is on
Direct	tions (51 & 52): Find t	he missing numbers/			o has D on his left side, C
Direct	letter/terms :			•	ether. Who are sitting on
E4				the two ends of the ro	
51.	ab - cb - c - c - b	(P) aabba		(A) C and E	(B) A and D
	(A) bcaaa	(B) aabbc		(C) B and C	(D) C and A
	(C) abcab	(D) acbca			

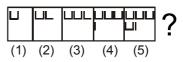
- 57.
 In a certain code, 23 is coded as OX, 529 as
 59.

 FOR, and 0229 as DOOR, how is 235290 coded ?
 (A) DOXFOR
 (B) FORDOX

 (C) OXFORD
 (D) FOXORD
- 58. In a row A is standing on the 11th place. B is standing on the 4th place behind him. C is standing on the 12th place before B. So what will be the position number of a boy standing between C and A?
 (A) 5th
 (B) 8th

(, ,) • • • •	(=) •
(C)6th	(D)7th

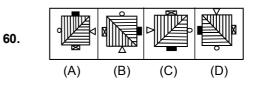
Direction : (59) In the following questions, some figures are given in a sequence. Find out the figure from the alternatives, which will come in place of the question mark to continue the sequence. Problem Figure



Answer Figure

(A)	(B)	(C)	(D)

Direction : (60) In the following questions, there are figures of which three are similar in a certain way, and one is different. Find the one that is different from the rest.



SAMPLE PAPER-1 CLASS-IX(ANSWER KEY)

Ques	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Ans.	В	В	С	D	С	С	В	D	D	С	А	В	А	В	В
Ques	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
Ans.	D	В	А	С	С	D	А	В	С	А	С	С	В	С	В
Ques	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
Ans.	С	Α	Α	Α	Α	В	В	D	С	В	А	D	В	В	D

SAMPLE PAPER-2 CLASS-IX(ANSWER KEY)

Ques.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Ans.	С	С	D	В	В	D	С	В	В	D	С	С	D	D	С
Ques.	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Ans.	D	В	D	В	В	Α	D	А	А	В	С	А	С	С	С
Ques.	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
Ans.	В	С	С	В	А	С	Α	D	А	С	Α	В	D	В	D
Ques.	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
Ans.	С	С	D	В	С	Α	С	А	В	Α	С	В	В	С	D

SAMPLE PAPER-3 CLASS-IX(ANSWER KEY)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
D	D	С	D	С	В	В	С	С	Α	В	С	С	D	D
16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
С	С	В	С	А	С	D	В	С	С	А	В	А	В	D
31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
D	В	В	А	С	А	А	В	D	D	С	С	А	С	С
46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
С	Α	В	В	В	Α	A	А	С	В	А	С	D	В	С