### **SAMPLE PAPER (VIII MOVING)**



## PHYSICS

СН	OOSE THE CORRECT	SINGLE OPTION:					
01.	A passing motorcycle causes distortion or disturbance with reception of signal in radio and						
	T.V. The cause of this is						
	(a) The spark plug fitted in the engine produces electro-magnetic signals due to sparking						
	` '	(b) The vehicle's metal parts block/distort the radio waves					
	(c) The intense sound	waves effect the sm	nall electronic device	es of the receptor			
	(d) Modern motor-cyc	les are fitted with ele	ectric ignition system	which produces radio waves			
02.	Which of the following are produced by a moving electric charge?						
	(1) Electric field	(2) Magnetic field	(3) Gravitational fie	eld			
	(a) 1 and 3	<b>(b)</b> 2 and 3	(c) 1 and 2	(d) 2 only			
03.	When a glass rod is ru	ubbed against silk					
	(a) Glass rod loses electrons and becomes positively charged						
	(b) Silk loses electrons and becomes positively charged						
	(c) Glass rod loses ele	(c) Glass rod loses electrons and becomes negatively charged					
	(d) Silk loses electron	s and becomes nega	atively charged				
04.	If a bimetallic strip is heated, it will						
	(a) Bend towards the metal with higher thermal coefficient of expansion						
	(b) Not bend at all						
	(c) Twist itself into a helix						
	(d) Bend towards the	metal with lower ther	rmal expansion coef	ficient			
05.	Mercury is used in the liquid thermometer because						
	(a) It is shiny and expands quickly (b) It expands slowly						
	(c) It does not expand (d) None of these						
06.	273.0 K is equal to						
	(a) 0°C	<b>(b)</b> 100°C	<b>(c)</b> 0° F	(d) 100°F			
07.	The SI unit of tempera	uture is					
	(a) Kelvin	(b) Celcius	(c) Fahrenheit	(d) None of these			
08.	The motion in which all points of the body move through the same distance in the same time is						
	(a) Curvilinear motion	· ·	(b) Rectilinear mot				
	(c) Translatory motion (d) None of these						
09.	The hands of clock, th		` '				
	(a) Rotatary motion (b) Revolutionary motion						
	(c) Oscillatory motion		(d) None of these				
10	Which of these is a tra	anslatory motion?	(a) None of those				
	(a) Circular motion	molatory motion:	(b) Rotational moti	on			
	• • • • • • • • • • • • • • • • • • • •						
44	(c) Oscillatory motion (d) None of these						
11.	Pressure is defined as	<b>5</b>					

(b) Force × Area

(d) None of these

(a) Force per unit area

(c) Force × Distance

12.	/eight of an object is the force exerted by the Earth on that body.						
	(a) Less than (b) More than	(c) Equal to	(d) None of these				
13.	Which of these is not non-renewable source	e of energy?					
	(a) Biomass (b) Uranium	(c) Petrol	(d) None of these				
14.	A waterfall has						
	(a) Potential energy (b) Kinetic energy	(c) Both (a) and (b)	(d) None of these				
15.	In an ideal machine, which of the following	is true?					
	(a) Work input is less than work output	(b) Work input is gre	eater than work output				
	(c) Work input is equal to work output	(d) None of these					
16.	A sea-saw on the playground is a						
	(a) Lever (b) Inclined plane	(c) Pulley	(d) None of these				
17.	Atmospheric pressure with the altitud	le.					
	(a) Decreases	(b) Increases					
	(c) Remains the same	(d) None of these					
18.	Bottle opener is an example of						
	(a) Lever (b) Pulley	(c) Screw	(d) All of these				
19.	Which of these inclined planes would be m	lost easy to use to m	ove an object upward?				
	1.0 meter						
			.0 meter				
	(a) 2.0 meters	(b) 4.5 meters					
	1.0 meter						
	(c) 6.0 meters	(d) None of these					
20.	The physical quantity dependent on directi	on is					
	(a) force (b) mass	(c) volume	(d) density				
		700					
	CHE	MISTRY					
СН	OOSE THE CORRECT SINGLE OPTION:						
21.	Liquids flow from a higher to a lower leve	el. Which liquid can	climb up the walls of the glass				
	vessel in which it is kept?		amina up and mana an and grace				
	(a) Liquid helium (b) Alcohol	(c) Water	(d) Liquid nitrogen				
22.	Rubber is very soft. Therefore, it is vulcania	sed and used in tyres	s. Vulcanised rubber resists:				
	(a) Drops of acid rain	(b) Cold temperatur	res				
	(c) Jerking movement	(d) Wear and tear due to friction					
23.	Which of the following is not a natural dye	<del>-</del>	<u> </u>				
	(a) Tyrian purple (b) Indigo	(c) Saffron	(d) Azo dye				
24.	Which of the following is a super-cooled liq		(4)\\\\= a d				
25		(c) Ice cream	` '				
∠5.	Methane gas is an organic fuel obtained from (a) Coal gas (b) Molasses	om the sources ment (c) Natural gas	(d) Sewage				
26	The odourless, poisonous gas mixed with	` ,	• ,				
<b>2</b> 0.	(a) Carbon monoxide (b) Nitrogen	(c) Carbon dioxide	<u> </u>				
	(a) Carbon monoxide (b) Milogen	(3) Carbon dioxide	(a) Modification				

<b>27</b> .	Chromium is used in n	naking:					
	(a) Stainless steel		(b) Mosaic-floor grir	nders			
	(c) Electrodes		(d) Bronze				
28.	Various methods are adopted for protecting iron from rust. Which of the following statements is false?						
	(a) Chrome plating looks good						
	(b) Ordinary tin plating is cheap but not reliable						
	(c) Zinc plating is more permanent than chrome plating						
	(d) Zinc protects iron but does not protect itself						
29.	When on heating, a solid becomes vapour without forming any liquid, it is said to have sublimed. Which of the following sublimes on heating?						
	(a) Salt	(b) lodine	(c) Iron	(d) Calcium			
30.	3 3	•		me chemicals are so basic that is the most important industrial			
	(a) Alcohol	(b) Sulphuric Acid	(c) Nitric acid	(d) Acetone			
31.	Topaz, opal, agate an different forms of:	d onyx are precious	and beautiful stone	s found in nature. All these are			
	(a) Silica	(b) Soda	(c) Carbon	(d) Lime			
32.	The Smallest particle of	of an element is	(				
	(a) An Atom	(b) A molecule	(c) Substance	(d) None of these			
33.	Tick the wrong statem	ent.					
	(a) Solids are attracted by magnet (b) Liquids are attracted by magnet						
	(c) Gases are attracted	d by magnet	(d) None of these				
34.	The method used to re	emove a solvent to le	eave a solid behind is	3			
	(a) Distillation	(b) Sublimation	(c) Filtration	(d) Combustion			
35.	All natural changes are	e	•				
	(a) Slow changes		(b) Fast changes				
	(c) Desirable change		(d) Both (a) and (b)				
36.	Converting milk into cheese is						
	(a) Irreversible change		(b) Reversible chan	ge			
	(c) Periodic change (d) None of these						
37.	Photosynthesis is a						
	(a) Physical change		(b) Chemical change				
	(c) Reversible change		(d) None of these				
38.	During all changes, ph						
	(a) Gained	(b) Conserved	(c) Loss	(d) None of these			
39.	Oil in water is a						
	(a) Homogeneous mix	ture	(b) Heterogeneous mixture				
	(c) Both (a) and (b)		(d) None of these				
40.	Formation of biogas fr	om cow dung is	<b>(1)</b> D				
	(a) Slow change		(b) Periodic change				
	(c) Reversible change	_	(d) Physical change				
		I					



# **MATHEMATICS**

#### **CHOOSE THE CORRECT SINGLE OPTION:**

- 41. If the number 56\_795 is divisible by 3, then the digit in the blank among the following is \_\_\_\_\_.
  - (a) 5

- **(b)** 0
- (c) 1

- (**d)** 6
- 42. In the figure below, if point O represents zero on the number line, then point A represents
  - (a) -2

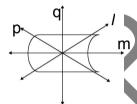
- **(b)** +2
- (c) +3
- (d) -3
- **43.**  $9\frac{1}{8}$  can be expressed as an improper fraction as\_\_.
  - (a)  $\frac{17}{9}$

- **(b)**  $\frac{72}{8}$
- (c)  $\frac{10}{8}$
- (d)  $\frac{73}{8}$
- **44.** The perimeter of an isosceles triangle is 25 cm and the length of one of the sides is 5 cm. The lengths of the other two equal sides are \_\_\_\_.
  - (a) 5 cm and 5 cm

**(b)** 10 cm and 10 cm

(c) 7.5 cm and 7.5 cm

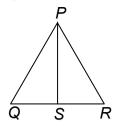
- (d) 15 cm and 15 cm
- 45. In the figure below, the mirror line or the axis of symmetry is



- (a) line q
- (b) line p
- (c) line
- (d) line m
- **46.** The supplementary angle of  $\frac{1}{2}$  of  $120^{\circ}$  is \_\_\_\_.
  - (a) 130°
- (b) 120°
- (c) 60°
- (d) 100°
- 47. Which of the following pair of fractions are equivalent fractions?
  - (a)  $\frac{1}{4}, \frac{4}{6}$
- **(b)**  $\frac{15}{45}, \frac{30}{60}$
- (c)  $\frac{5}{12}$ ,  $\frac{10}{12}$
- (d)  $\frac{6}{24}, \frac{3}{12}$
- **48.** Kirti and Tina go for a morning walk. Kirti goes around a rectangular field of length 275 m and breadth 125 m. Tina goes around a square field of side 225 m. The correct statement among the following is
  - (a) Both Kirti and Tina covers equal distance in each round.
  - (b) Kirti covers 100 m more distance than Tina in each round.
  - (c) Tina covers 100 m more distance than Kirti in each round.
  - (d) Tina covers 50 m more distance than Kirti in each round.
- 49. In which of the following situations do we use approximation?
  - (i) The number of people watching a particular television show.
  - (ii) The number of people travelling between two destinations per day.
  - (iii) The number of students in a class.
  - (iv) The number of people participating in a procession.
  - (a) (i), (ii)
- (b) (ii), (iii)
- (c) (iii), (iv)
- (d) (i), (ii), (iv)
- **50.** The sum of two integers is –401. If one of them is –90, then the other number is \_\_\_\_\_
  - **(a)** –311
- **(b)** 491
- **(c)** –491
- **(d)** –391

<b>E</b> 1	A toy is placed in front of a mirror at a distance of 80 cm from it, then the reflected image is						
31.	formed at a distance of cm from the mirror.						
	(a) 40	<b>(b)</b> 80	<b>(c)</b> 100	<b>(d)</b> 160			
<b>52</b> .	Which of the following pairs of primes is not a pair of twin primes?						
	(a) 3, 5	<b>(b)</b> 5, 7	<b>(c)</b> 7, 11	<b>(d)</b> 11, 13			
53.	While playing a game Anita lost Rs 80 in the first game, Rs 40 in the second game and Rs in the third game. Also, she gained Rs 50 in the fourth game and Rs 70 in the fifth game. In net loss or gain was						
	(a) Rs.45		(c) Rs.25	(d) Rs.20			
54.	A car covers a distance is	ce of 89.1 km in 2.2	hours. The average	distance covered by it in 1 hour			
	(a) 40.5 km	<b>(b)</b> 41.5 km	(c) 15.5 km	(d) 55.5 km			
55.	` '		• •	If a woman earns Rs. 500 more			
<b>.</b>	than a man, then the r	_		in a welliam earlier to: 656 mere			
	(a) Rs.6500	<b>(b)</b> Rs. 7500		(d) Rs. 9000			
56.	` '	` '	` '	$\angle 1 = 100^{\circ}$ , then the value of			
	<b>∠</b> 5 =						
			<b>A</b> t				
			1				
		•	$\frac{\sqrt{2}}{\sqrt{2}}$				
			4/3				
		/					
		<b>√</b> 6	$\rightarrow m$				
		7					
	(a) 105°	(b) 100°	(a) 105°	(d) 120°			
	(a) 125°	(b) 100°	(c) 105°	<b>(d)</b> 130°			
5/.	In the figure below, the	e measure or angle x	( IS				
			1				
			X				
			$x \Box$				
	(a) 60°	<b>(b)</b> 90°	<b>(c)</b> 40°	<b>(d)</b> 45°			
58.	A bag contains 50 pa	ise, Rs 1 and Rs 2	coins in the ratio of 2	2:3:4, if the total value of the			
	coins is Rs 24, then the	ne number of Rs 2 co	oins in the bag is	_·			
	(a) 5	<b>(b)</b> 6	(c) 8	(d) 3			
59.	The following are the cm and CA = 6 cm.	steps for construction	on of a triangle ABC	in which AB = 5 cm, BC = 4.1			
	(i) Join A and B, A and C.						
	(ii) Draw a line segme	nt BC of length 4.1 c	m.				
	(iii) With B as centre a	ind radius 5 cm draw	an arc.				
	(iv) With C as centre a			evious arc at A.			
	The proper order of st	-		4 N H 4 H 4			
	(a) iv, ii, i, iii	<b>(b)</b> iii, i, iv, ii	(c) ii, iii, iv, i	(d) ii, i, iii, iv			
			_				

**60.** In the figure below, PQ = PR, so which of the following additional information is required to show that  $\Delta QPS \cong \Delta RPS$  by SAS congruence condition?



(a) 
$$\angle Q = \angle R$$

(b) 
$$\angle QPS = \angle RPS$$

(d) 
$$\angle P = \angle Q$$

### 

### **Answer Key**

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

