RGP - RANKERS GUARANTEED PROGRAM
Set
(PHYSICS, CHEMISTRY, BIOLOGY \& MAT)

## time: 1 Hour

## Studying in class $10^{\text {th }} \&$ Moving to $1^{\text {th }}$ (BIO)

## 1. General Instructions:

(Paper Code: 1102)

* This test paper consists of 60 questions in 4 sections (A, B, C, D) Marking Scheme:
> Full marks: + 2 if answered correctly.
> Zero marks: 0 if not attempted or incorrect.


## 2. RGP College Grant Criteria:

$\checkmark$ Students must score a minimum of $70 \%$ positive marks in RGP.
$\checkmark$ Student must get under AIR 5,000 in JEE/NEET Examination.

## 3. Cash Reward Criteria:

$\checkmark$ Students must score a minimum of $70 \%$ positive marks in their respective papers.
$\checkmark$ Exciting Cash Rewards for RGP Toppers

- $1^{\text {st }}$ Topper-₹ $21,000 /-$
- $2^{\text {nd }}$ Topper - ₹ $11,000 /-$
- $3^{\text {rd }}-5^{\text {th }}$ Topper - ₹ $5,100 /-$
- $6^{\text {th }}-10^{\text {th }}$ Topper $-₹ \mathbf{2}, 100 /-$

Students Scoring Rank from $11^{\text {th }}-\mathbf{2 0}^{\text {th }}$ will get Exciting Rewards.
4. Scholarship Criteria in Rankers Offline Classroom Program:
(100\% FEE WAIVER - $\boldsymbol{I}^{S T}$ TOPPER) and must getting above 70\% marks.
$\checkmark \mathbf{8 0 \%}$ Fee Waiver - Student Scoring 80\% and above.
$\checkmark \mathbf{6 0 \%}$ Fee Waiver - Student Scoring 70\% to 79.999\%.
$\checkmark \mathbf{5 0 \%}$ Fee Waiver - Student Scoring 60\% to 69.999\%.
$\checkmark$ 40\% Fee Waiver - Student Scoring 50\% to 59.999\%.
$\checkmark$ 20\% Fee Waiver - Student Scoring 30 \% to 49.999\%
$\checkmark \mathbf{1 0 \%}$ Fee Waiver - All the Aspirants Appearing in RGP.

Student's Name: $\qquad$
School Name: - $\qquad$
Class: Mob. No.

Student's Signature: $\qquad$ Invigilator's Signature: -

## Physics (Section - A)

1. Six identical resistors connected between points $\mathrm{A}, \mathrm{B}$ and C as shown in diagram. The equivalent resistance would be maximum between.
(a) A and B
(b) B and C
(c) A and C
(d) Option (a), (b) and (c) are correct.

2. 2-point A and B are at electric potentials 10 V and 100 V respectively. A charge $q$ is taken from A to B and 18 joule of work is done. The value of $q$ is
(a) 2 Coulomb
(b) 0.2 Coulomb
(c) 20 Coulomb
(d) 0.02 Coulomb
3. Light travels through a glass slab of thickness $t$ and having refractive index $n$. If $c$ is the velocity of light in vacuum, then the time taken by light to travel this thickness of glass is
(a) $\frac{t}{n c}$
(b) $\frac{n t}{c}$
(c) $\frac{n^{2} t}{c}$
(d) $\frac{t}{n^{2} c}$
4. The resistance of rheostat shown in the figure is $0-30 \Omega$. Neglecting the resistance of ammeter and connecting wire, the minimum and maximum currents through the ammeter will be
(a) $(0.08 \mathrm{~A}, 0.33 \mathrm{~A})$
(b) $(0.06 \mathrm{~A}, 0.08 \mathrm{~A})$
(c) $(0.06 \mathrm{~A}, 0.33 \mathrm{~A})$
(d) $(0.33 \mathrm{~A}, 0.09 \mathrm{~A})$


Rough
5. An object of height 2.0 cm is placed on the principal axis of a concave mirror at a distance of 12 cm from the pole. If the image is inverted, real and 5 cm in height then location of the image and focal length of the mirror respectively are
(a) $(-30 \mathrm{~cm},+8.6 \mathrm{~cm})$
(b) $(-30 \mathrm{~cm},-8.6 \mathrm{~cm})$
(c) $(+30 \mathrm{~cm},+8.6 \mathrm{~cm})$
(d) $(+30 \mathrm{~cm},-8.6 \mathrm{~cm})$
6. A 10 V battery is connected to a series combination of two resistances of $4000 \Omega$ and $6000 \Omega$. A non-ideal voltmeter of resistance $10,000 \Omega$ connected across $4000 \Omega$ reads 3.226 V . What would be the value if the same voltmeter is connected across $6000 \Omega$ ?
(a) 3.326 V
(b) 4.326 V
(c) 3.238 V
(d) 4.838 V
7. A person cannot clearly see objects at a distance more than 40 cm . He is advised to use lens of power
(a) -2.5 D
(b) 2.5 D
(c) -1.5 D
(d) 1.5 D
8. An observer moves towards a stationary plane mirror at a speed of $4 \mathrm{~m} / \mathrm{s}$. The speed with which his image moves towards him?
(a) $2 \mathrm{~m} / \mathrm{s}$
(b) $4 \mathrm{~m} / \mathrm{s}$
(c) $8 \mathrm{~m} / \mathrm{s}$
(d) Image will stay at rest
9. A concave mirror of focal length 15 cm forms an image. The position of the object when the image is virtual and linear magnification is 2 is
(a) 22.5 cm
(b) 7.5 cm
(c) 30 cm
(d) 45 cm
10. An object is placed at point A in front of a convex lens of focal length $f$. Its real, inverted and magnified image is formed behind the lens. When the object is brought closer to the lens and placed at a point B, a virtual and erect image, but with exactly the same magnification (in magnitude) as before is formed in front of the convex lens. Let F be the focus of the lens in front of it. Which of the following relations is correct?
(a) $\mathrm{AF}=\mathrm{FB}$
(b) $\mathrm{AB}=f$
(c) $\mathrm{AF}-\mathrm{BF}=f$
(d) $\mathrm{AB}=2 f$
11. Nethra, who is a back-bencher, discovers one day in the class that she is unable to discern the details on the blackboard very well. When she visits an optician, he prescribes glasses for her. Which of the following statement(s) is/are false?
I. She suffers from myopia where the far point is nearer than the blackboard.
II. A concave lens with a suitable power can help correct her vision.
III. Her eye is defective and is forming images in front of the retina.
IV. A concave lens or a convex lens may be used to correct her vision.
(a) Only I
(b) I, II and III
(c) I, II and IV
(d) Only IV
12. Figures shows three electrical appliances connected to 220 V ac mains. What is the amperage (current rating) of the fuse that should be used in the circuit?
(a) 1.0 A
(b) 2.0 A
(c) 5.0 A
(d) 10.0 A

13. A positively charged plate and negatively charged plate are kept parallel to each other at a distance of 10 cm . An electron is released near the negative plate. Looking from the negative plate towards the positive plate, the magnetic field produced by the moving electron will be
(a) clockwise
(b) anti - clockwise
(c) positive to negative plate
(d) negative to positive plate
14. Magnetic field at the centre of a circular coil of radius R carrying current $i$ is $B \propto \frac{i}{R}$ and its direction is given by right-hand thumb rule. Magnetic field at the centre of circular arc subtending an angle $\theta$ (in degree) is $B \propto \frac{i}{R}\left(\frac{\theta}{360^{\circ}}\right)$ and its direction can be found using right hand rule.


Considering two circular coils made of uniform conductors as shown in figure 3 and 4. In figure 3 points C and D are diametrically opposite to each other, and in figure $4 \angle P O_{2} Q=120^{\circ}$.

Then magnetic fields $\qquad$

(a) at both $O_{1}$ and $O_{2}$ are zero.
(b) at both $O_{1}$ and $O_{2}$ are non - zero.
(c) is zero at $O_{1}$ but non - zero at $O_{2}$
(d) is non - zero at $O_{1}$ but zero at $O_{2}$
15. Two long current-carrying parallel wires are placed as shown.


Which of the following figures will represent the magnitude and direction of the forces exerted on the wires?
(a)

(b)

(c)

(d)

Rough

## Chemistry (Section - B)

16. Denatured alcohol is a mixture of
(a) $\mathrm{CH}_{3} \mathrm{OH}$ and HCHO
(b) $\mathrm{CH}_{3} \mathrm{OH}$ and $\mathrm{CH}_{3} \mathrm{COOH}$
(c) $\mathrm{C}_{2} \mathrm{H}_{5} \mathrm{OH}$ and $\mathrm{CH}_{3} \mathrm{OH}$
(d) $\mathrm{C}_{2} \mathrm{H}_{5} \mathrm{OH}$ and $\mathrm{CH}_{3} \mathrm{COOH}$
17. For welding a mixture of oxygen and $\qquad$ is burnt
(a) Benzene
(b) Butane
(c) Methane
(d) Ethyne
18. Which one of the following oxides is insoluble in water?
(a) $\mathrm{Na}_{2} \mathrm{O}$
(b) CuO
(c) $\mathrm{K}_{2} \mathrm{O}$
(d) CaO
19. The values of stoichiometric coefficients $\mathrm{m}, \mathrm{x}, \mathrm{y}$ and z in the following reaction after balancing are, respectively:
$m\left(\mathrm{NH}_{4}\right)_{2} \mathrm{Cr}_{2} \mathrm{O}_{7} \xrightarrow{\Delta} x \mathrm{Cr}_{2} \mathrm{O}_{3}+y \mathrm{~N}_{2}+z \mathrm{H}_{2} \mathrm{O}$
(a) $2,1,1,2$
(b) 2, 2, 2, 4
(c) $1,1,1,4$
(d) 2, 2, 1, 2
20. You are provided with aqueous solution of three salts A, B and C. $2-3$ drops of blue litmus solution, red litmus solution and phenolphthalein were added to each of these solutions in separate each of these solutions in separate experiments. The change in colour of different indicators were recorded in the following table:

| Sample | With blue litmus <br> solution | With red litmus <br> solution | With <br> phenolphinalein |
| :---: | :---: | :---: | :---: |
| A | No change | Turns blue | Turns pink |
| B | No change | No change | No change |
| C | Turns red | No change | No change |

On the basis of above observations, identify $\mathrm{A}, \mathrm{B}$ and C from the following options:
(a) $\mathrm{A}=\mathrm{NaCl}, \mathrm{B}=\mathrm{CH}_{3} \mathrm{COONa}, \mathrm{C}=\mathrm{FeCl}_{3}$
(b) $\mathrm{A}=\mathrm{CH}_{3} \mathrm{COONa}, \mathrm{B}=\mathrm{NaCl}, \mathrm{C}=\mathrm{FeCl}_{3}$
(c) $\mathrm{A}=\mathrm{FeCl}_{3}, \mathrm{~B}=\mathrm{NaCl}, \mathrm{C}=\mathrm{CH}_{3} \mathrm{COONa}$
(d) $\mathrm{A}=\mathrm{FeCl}_{3}, \mathrm{~B}=\mathrm{CH}_{3} \mathrm{COONa}, \mathrm{C}=\mathrm{NaCl}$
21. IUPAC name of the following compound will be:

(a) 2 - Keto hexan -6 oic acid
(b) 5 - Keto hexanoic acid
(c) Methyl Ketone butanoic acid
(d) 5 - Aldo hexanoic acid
22. The compound ' $A$ ' when treated with alkaline potassium permanganate gives ' $B$ ', and with conc. Sulphuric acid gives ' C ' and ' D '. The compounds A, B, C and D are respectively
(a) $\mathrm{C}_{2} \mathrm{H}_{4}, \mathrm{CH}_{3} \mathrm{COONa}, \mathrm{C}_{2} \mathrm{H}_{5} \mathrm{OH}, \mathrm{H}_{2} \mathrm{O}$
(b) $\mathrm{CH}_{3} \mathrm{COOH}, \mathrm{C}_{2} \mathrm{H}_{4}, \mathrm{CH}_{3} \mathrm{OH}, \mathrm{H}_{2} \mathrm{O}$
(c) $\mathrm{C}_{2} \mathrm{H}_{5} \mathrm{OH}, \mathrm{CH}_{3} \mathrm{COOH}, \mathrm{C}_{2} \mathrm{H}_{4}, \mathrm{H}_{2} \mathrm{O}$
(d) $\mathrm{CH}_{3} \mathrm{OH}, \mathrm{HCOOH}, \mathrm{H}_{2} \mathrm{O}, \mathrm{CH}_{4}$
23. Which of the following does not contain seven molecules of water of crystallization?
(a) Epsom salt
(b) Green vitriol
(c) Blue vitriol
(d) White vitriol
24. If excess of $\mathrm{CO}_{2}$ is passed through the suspension of a compound ' X ' in water, a compound ' Y ' is formed. Substances ' X ' and ' Y ' dissolve in $\mathrm{H}_{2} \mathrm{SO}_{4}$ giving white compound ' $Z$ ' which is insoluble in water. Identify the compounds ' X ', ' Y ' and ' Z '.
(a) $\mathrm{CaSO}_{4}, \mathrm{CaCO}_{3}$, gypsum
(b) $\mathrm{CaSO}_{4}, \mathrm{Ca}\left(\mathrm{HCO}_{3}\right)_{2}$, lime
(c) $\mathrm{CaCO}_{3}, \mathrm{Ca}\left(\mathrm{HCO}_{3}\right)_{2}, \mathrm{CaSO} 4$
(d) $\mathrm{CaHCO}_{3}, \mathrm{CaCO}_{3}, \mathrm{CaSO}_{4}$
25. Tick the arrangement of metals $\mathrm{Fe}, \mathrm{Cu}, \mathrm{Zn}, \mathrm{Ag}$ in the order of decreasing reactivity.
(a) $\mathrm{Fe}>\mathrm{Cu}>\mathrm{Zn}>\mathrm{Ag}$
(b) $\mathrm{Cu}>\mathrm{Fe}>\mathrm{Zn}>\mathrm{Ag}$
(c) $\mathrm{Ag}>\mathrm{Zn}>\mathrm{Fe}>\mathrm{Cu}$
(d) $\mathrm{Zn}>\mathrm{Cu}>\mathrm{Fe}>\mathrm{Ag}$
26. Read the following statements.

Statements I: Sodium metal reacts violently with water to produce heat and fire.
Statements II: Potassium metal reacts violently with water to from potassium hydroxide and hydrogen gas.
Select the correct answer from the option given below.
(a) Statement I is true, Statement II is false.
(b) Statement I is false, Statement II is true.
(c) Both statements are true, and statement II provides explanation to Statement I.
(d) Both Statements are true but Statement II does not provide explanation to Statement I.
27. Which of the following set of reactions will NOT occur?
I. $\mathrm{MgSO}_{4}(\mathrm{aq})+\mathrm{Fe}(\mathrm{s}) \rightarrow \mathrm{FeSO}_{4}(\mathrm{aq})+\mathrm{Mg}(\mathrm{s})$
II. $\mathrm{CuSO}_{4}(\mathrm{aq})+\mathrm{Fe}(\mathrm{s}) \rightarrow \mathrm{FeSO}_{4}(\mathrm{aq})+\mathrm{Cu}(\mathrm{s})$
III. $\mathrm{MgSO}_{4}(\mathrm{aq})+\mathrm{Cu}(\mathrm{s}) \rightarrow \mathrm{CuSO}_{4}(\mathrm{aq})+\mathrm{Mg}(\mathrm{s})$
IV. $\mathrm{CuSO}_{4}(\mathrm{aq})+\mathrm{Zn}(\mathrm{s}) \rightarrow \mathrm{ZnSO}_{4}(\mathrm{aq})+\mathrm{Cu}(\mathrm{s})$
(a) I and III
(b) II and IV
(c) I, II and III
(d) II, III and IV
28. The following observations are given for four metals:
I. Metal H does not react with dilute HCl
II. Metal K reacts with warm water.
III. Metal L does not react with water but displaces metal H from its aqueous salt solution.
IV. Metal M reacts with cold water.

Choose the correct decreasing order of reactivity of these metals amongst the following:
(a) $\mathrm{M}>\mathrm{L}>\mathrm{H}>\mathrm{K}$
(b) $\mathrm{K}>\mathrm{M}>\mathrm{H}>\mathrm{L}$
(c) $\mathrm{M}>\mathrm{K}>\mathrm{L}>\mathrm{H}$
(d) $\mathrm{L}>\mathrm{H}>\mathrm{K}>\mathrm{M}$
29. Match chemical reactions given in the List-I with the type of chemical reactions given in List-II and select the correct answer using the options given below:

| List - I <br> (Chemical reactions) |  |  | List - II <br> (Types of chemical reactions) |
| :--- | :--- | :--- | :--- |
| (A) | Formation of $\mathrm{NH}_{3}$ from $\mathrm{N}_{2}$ and $\mathrm{H}_{2}$ | I. | Decomposition |
| (B) | Calcination of zinc carbonate | II. | Double displacement |
| (C) | Reaction of aqueous $\mathrm{BaCl}_{2}$ solution <br> with dilute $\mathrm{H}_{2} \mathrm{SO}_{4}$ | III. | Combination |
| (D) | Rancidity of oils | IV. | Redox |
|  |  | V. | Displacement |

(a) A - I, B - V, C - III, D - IV
(b) A - III, B - IV, C - V, D - I
(c) $\mathrm{A}-\mathrm{IV}, \mathrm{B}-\mathrm{III}, \mathrm{C}-\mathrm{V}, \mathrm{D}-\mathrm{I}$
(d) A - III, B - I, C - II, D - IV
30. In the balanced chemical equation:
(a lead nitrate +b aluminium chloride $\rightarrow \mathrm{c}$ aluminium nitrate +d lead chloride)
Which of the following alternative is correct?
(a) $\mathrm{a}=1, \mathrm{~b}=2, \mathrm{c}=2, \mathrm{~d}=1$
(b) $\mathrm{a}=4, \mathrm{~b}=3, \mathrm{c}=3, \mathrm{~d}=4$
(c) $\mathrm{a}=2, \mathrm{~b}=3, \mathrm{c}=2, \mathrm{~d}=3$
(d) $a=3, b=2, c=2, d=3$

## Biology (Section - C)

31. Choose the correct sequence:
(a) Pulmonary vein $\rightarrow$ Pulmonary artery $\rightarrow$ Left auricle $\rightarrow$ Right ventricle
(b) Pulmonary artery $\rightarrow$ Right auricle $\rightarrow$ Left ventricle $\rightarrow$ Pulmonary vein
(c) Right auricle $\rightarrow$ Pulmonary artery $\rightarrow$ Pulmonary vein $\rightarrow$ Left ventricle
(d) Left ventricle $\rightarrow$ Pulmonary vein $\rightarrow$ Pulmonary artery $\rightarrow$ Right auricle
32. Grafting is possible among dicot plants but not in monocot plants. This is due to presence of one of the following conditions in dicot plant.
(a) Presence of open vascular bundles
(b) Presence of collenchyma tissues
(c) Presence of intercalary meristem
(d) Larger diameter of stem
33. Choose the correct option to complete 'A', 'B', 'C' and 'D' in the following table.

| Hormone | Function |
| :---: | :--- |
| A | Stimulates growth in all organs. |
| B | Stimulates pituitary to release growth hormone. |
| C | Controls blood sugar level. |
| D | Regulates carbohydrates metabolism. |

(a) A - Insulin, B - Thyroxine, C - Growth hormone, D - Growth hormone release factor
(b) A - Growth hormone, B - Insulin, C - Thyroxine, D - Growth hormone release factor
(c) A - Thyroxine, B - Insulin, C - Growth hormone, D - Growth hormone release factor
(d) A - Growth hormone, B - Growth hormone release factor, C - Insulin, D - Thyroxine
34. When does the heart rest?
(a) Never
(b) While sleeping
(c) Between two beats
(d) While doing yogasan
35. Which of the following products of light dependent phase are used during the light independent phase of photosynthesis?
(a) RUBP and ATP
(b) $\mathrm{H}_{2} \mathrm{O}$ and $\mathrm{O}_{2}$
(c) NADPH and ATP
(d) ATP and $\mathrm{O}_{2}$
36. Growth of pollen tube in the style towards the ovule in plants is an example of
(a) Geotropism
(b) Hydrotropism
(c) Phototropism
(d) Chemotropism
37. In a food chain comprising a snake, grass, a frog and insect, the secondary consumer is
(a) Insect
(b) Snake
(c) Frog
(d) Grass
38. Observe the experimental sets $(A) \&(B)$.


Observe the test tube A \& B. From the list given below, choose the combination of responses of shoot and root that are observed in B.
(a) Positive phototropism and positive geotropism
(b) Negative phototropism and positive geotropism
(c) Positive phototropism and negative geotropism
(d) Only negative phototropism
39. In pea plants, Round $(\mathrm{R})$ and Yellow ( Y ) features of seeds are dominant over wrinkled ( r ) and green (y) features. In a cross between two plants having the same genotypes (RrYy) the following genotypic combinations of offspring are noticed.
A - RrYY
B - Rryy
C - rrYy
D - rryy

The phenotypic features of A, B, C, and D are given below in an order in four combination of characters that corresponds to the genotypes.
(a) Round \& yellow; round \& green; wrinkled \& yellow; wrinkled \& green."
(b) Round \& green; wrinkled \& yellow; wrinkled \& green; round \& yellow.
(c) Wrinkled \& green; round \& yellow; winkled \& yellow; round \& green.
(d) Wrinkled \& yellow; round \& green; wrinkled \& yellow; round \& yellow.
40. Pneumotaxis centres are present in (i) and respiratory rhythm centre is in (ii).
(a) (i) - pons, (ii) - medulla
(b) (i) - pons, (ii) - cerebellum
(c) (i) - cerebrum, (ii) - medulla
(d) (i) - pons, (ii) - cerebrum

41. Uric acid is the main excretory product of:
(A) Insects
(B) Birds
(C) Terrestrial reptiles
(D) Human being
(a) A, B and C are correct
(b) A and B are only correct
(c) Only B and D are correct
(d) Only A and C are correct
42. Period of complete development of foetus starting with implantation till the birth of young one called as
(a) Gestation period
(b) Parturition
(c) Pregnancy
(d) both (a) and (c)
43. Which of the following is a result of biological magnification:
(a) Top level predators may be harmed toxic chemicals in environment.
(b) Increase in carbon dioxide
(c) The green-house effect will be most significant at the poles.
(d) Energy is lot at each tropic level of a food chain.
44. Spinal cord originates from:
(a) Cerebrum
(b) Cerebellum
(c) Medulla
(d) Pons
45. In micturition
(a) urethra relaxes
(b) ureter relaxes
(c) ureter contracts
(d) urethra contacts

Rough

## MAT (Section - D)

46. Sunil is the son of Keshav, Simran, Keshav's sister, has a son Maruti and daughter Sita. Prem is the maternal uncle of Maruti. How is Sunil related to Maruti?
(a) Cousin
(b) Maternal uncle
(c) Brother
(d) Nephew
47. Which two months in a year have the same calendar?
(a) June, October
(b) April, November
(c) April, July
(d) October, December
48. Ashish leaves his house at 20 minutes to seven in the morning, reaches Kunal's house in 25 minutes, they finish their breakfast in another 15 minutes and leave for their office which takes another 35 minutes. At what time do they leave Kunal's house to reach their office?
(a) $7.40 \mathrm{a} . \mathrm{m}$.
(b) 7.20 a.m.
(c) $7.45 \mathrm{a} . \mathrm{m}$.
(d) $8.15 \mathrm{a} . \mathrm{m}$.
49. If in a certain code 'INTELLIGENCE' is written as 'ETNIGILLECNE', then how can 'MATHEMATICAL' be written in the same code?
(a) AMHTMETACILA
(b) TAMMEHITALAC
(c) HTAMTAMELACI
(d) LACITAMEHTAM
50. A boy starts from home in early morning and walks straight for 8 km facing the Sun. Then, he takes a right turn and walks for 3 km . Then, he turns right again and walks for 2 km and then turns left and walks for 1 km . Then, he turns right, travels 1 km and then turns right and travels for 4 km straight. How far is he from the starting point?
(a) 5 km
(b) 6 km
(c) 2 km
(d) 4 km
51. If $+=\times,-=\div, x=+, \div=-$, then which is the correct equation out of the following?
(a) $18+6-4 \times 2 \div 3=26$
(b) $18 \div 6+4-2 \div 3=22$
(c) $18-6 \times 7 \div 2+8=63$
(d) $18 \times 6-4+7 \times 8=47$
52. Find the missing number
(a) 92
(b) 128
(c) 200
(d) 30

| 2 | 3 | 8 |
| :--- | :--- | :--- |
| 4 | 5 | 10 |
| 6 | 7 | 12 |
| 32 | 50 | $?$ |

53. $3,5,35,10,12,35, \ldots$
(a) 19,35
(b) 17,19
(c) 19,24
(d) 22,35
54. $7,8,18,57, ?, 1165$
(a) 174
(b) 232
(c) 224
(d) 228
55. What comes in place of question mark:

(X)

(a)

(b)

(c)

(d)
56. What comes next in problem figure:

PROBLEM FIGURES
ANSWER FIGURES

57. Count the number of triangles in the given figure.
(a) 21
(b) 23
(c) 25
(d) 27

58.

(X)

(A)

(B)

(C)

(D)

Which of the following is correct?
(a) A only
(b) B only
(c) A and C only
(d) A, B, C and D
59. A newspaper has 6 sheets consisting of 24 pages in total. If page number 17 of that newspaper is missing then find the set of missing pages in that newspaper, from the alternatives given below:
(a) $6,7,16,17$
(b) 7, 8, 17, 18
(c) $8,9,17,18$
(d) $9,10,16,17$
60. A comparison of marks scored by Gauri, Aaban, Seerat and Alvina in an examination is as follows.
I. Gauri has scored 15 marks less than Aaban.
II. Gauri has scored 20 marks more than Seerat.
III. Alvina has scored 10 marks less than Seerat.

To decide who has scored the highest marks, identify the statement from those given in the alternatives in respect of sufficiency of data.
(a) Data given in I and II are sufficient.
(b) Data given in I and III are sufficient.
(c) Data given in II and III are sufficient.
(d) Data given in I, II and III are sufficient.

