

STaRT-2012 SAMPLE TEST PAPER CLASS-VIII

Time : 90 min.

Maximum Marks : 200

GENERAL INSTRUCTIONS

- 1. he question paper contains 50 questions, 15 Questions from Mathematics (1-15), 10 questions from Physics (16-25), 5 questions from Chemistry (26-30), 5 questions from Biology (31-35), and 15 questions from Mental Ability (36-50).
- 2. The OMR sheet given in the examination hall is the Answer Sheet.
- 3. Blank papers, clip boards, log tables, slide rule, calculators, mobile or any other electronic gadgets in any form is not allowed.
- 4. Do not forget to mention your roll number neatly and clearly in the blank space provided in the answer sheet.
- 5. Each Question carries 4 marks. '1' mark will be deduct for each wrong answer. So attempt each question carefully.
- 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.

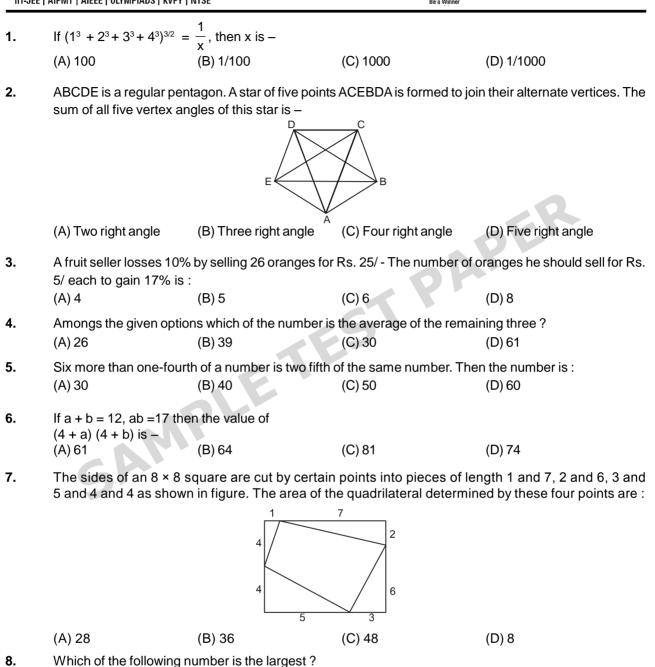
Name : _____

Roll No. : _____

Resonance Eduventures Pvt. Ltd.

Corporate Office: J-2, Jawahar Nagar Main, Kota (Rajasthan) - 324005, INDIA Tel.: +91-0744-3012222, 3192222, 2437144 | Fax: 022-39167222, 0744-2427144 Toll Free: 1800 200 2244 | Website : www.resonance.ac.in | E-mail : contact@resonance.ac.in





PAGE #1

An Initiative by Resonar



| | Educating for better tor | | PAGE #2 | START-2012 An Initiative by Resonance Eduventures Pvt. Ltd. |
|-----|--|--|--|--|
| 9. | | er of boys is more th | an the number of girls by 12 | 2% of the total strength. The ratio |
| | of boys to girls is : (A) 11 : 14 | (B) 14 : 11 | (C) 25 : 28 | (D) 28 : 25 |
| 10. | The mean weight of a | a class of 34 students | s is 46.5 kg. If weight of the te | eacher is included, the mean rises |
| | by 500 gm. Then the | weight of the teache | er is – | |
| | (A) 175 kg | (B) 62 kg | (C) 64 kg | (D) 72 kg |
| 11. | In an examination, 92 (A) 550 | 2% of the candidates (B) 450 | passed and 36 failed. How (C) 400 | many candidates appeared ? (D) 500 |
| 12. | If width of a rectangle (A) 90 m ² | e is 4m less than its l (B) 30 m ² | ength and its perimeter is 33 (C) 60 m ² | 2m, then the area of rectangle is (D) 120 m ² |
| 13. | The perimeter of an i side is : | sosceles triangle is 2 | 28 cm. If one side is 8 cm, th | en the length of each of the equal |
| | (A) 20 cm | (B) 10 cm | (C) 12 cm | (D) 8 cm |
| 14. | The angles of a trian (A) 90°, 60°, 30° (B) 7 | | : 2 : 1, then the angles are (C) 80°, 60°, 40° | (D) 70°, 60°, 50° |
| 15. | Measure of x° in the | given figure is | | |
| | (A) 60° | P ∧x [®] | | |
| | (B) 70° | | | |
| | (C) 80° (D) 55° | 9 50° RV 120° | S | |
| 16. | Pressure varies with | | | |
| | (A) F (B) F ⁻¹ | | (C) F ² | (D) F ⁻² |
| 17. | The unit of change in | momentum is : | | |
| | (A) N × s | (B) N/s | (C) N | (D) $\frac{kgxs}{m}$ |
| 18. | The phenomenon du | e to which bottom of | a tank filled with water appe | ars raised is : |
| | (A) dispersion | (B) refraction | (C) reflection | (D) all of them |
| | | | | |

| | Resonance Educating for better tomo AIPMT AIEEE OLYMPIADS KVPY | | | An Initiative by Resonance Eduventures Pvt. Ltd. | | | | | | | |
|-----|--|------------------------------|---|--|--|--|--|--|--|--|--|
| 19. | How many electrons constitute current of one | | | | | | | | | | |
| | micro ampere in one se | | | | | | | | | | |
| | (A) 6.25 × 10 ⁶ | (B) 6.25 × 10 ¹² | (C) 6.25 ×10 ⁹ | (D) 6.25 × 10 ¹⁵ | | | | | | | |
| 20. | | cal sound depends upon: | | | | | | | | | |
| | (A) Amplitude | (B) Loudness | (C) Frequency | (D) Quality | | | | | | | |
| 21. | A convex mirror has a produces an image at : | focal length of 10 cm. A | eal object is placed at a | distance of 10 cm from pole | | | | | | | |
| | (A) infinity | (B) 20 cm | (C) 10 cm | (D) 5 cm | | | | | | | |
| 22. | The planet closest to the sun is : | | | | | | | | | | |
| | (A) mars | (B) Jupiter | (C) mercury | (D) earth | | | | | | | |
| 23. | The velocity of sound w | ave is maximum in | | OV | | | | | | | |
| | (A) Gas | (B) Liquid | (C) Vacuum | (D) Copper | | | | | | | |
| 24. | 0, | red by radiation in the form | | | | | | | | | |
| | (A) mechanical waves (C) both (A) and (B) | | (B) electromagnetic waves(D) none of these | | | | | | | | |
| 25. | A calorimeter full of hot | water is hang in vacuum | It will cool by : | | | | | | | | |
| _0. | (A) convection | (B) radiation | (C) conduction | (D) Not cool at all | | | | | | | |
| 26. | Tungsten is used in ele | ctric bulbs because - | | | | | | | | | |
| | (A) it has high melting p | point | (B) it is metallic in natu | re | | | | | | | |
| | (C) it has high tensile st | trength | (D) it has high density | | | | | | | | |
| 27. | Which of the following s | substances is added to p | etrol to improve its qualit | y ? | | | | | | | |
| | (A) Calcium carbonate | | (B) Ethylene dibromide | | | | | | | | |
| | (C) Tetraethyl lead | | (D) Ethyl Mercaptan | D) Ethyl Mercaptan | | | | | | | |
| 28. | Statement - 1 \rightarrow Graphite is used as an electrode in an electrolytic cell. Statement - 2 \rightarrow Graphite is an example of non-metal . | | | | | | | | | | |
| | Choose the correct stat | tement : | | | | | | | | | |
| | (A) Statement 1 and 2 are true and statement 2 is the correct explanation of statement 1 | | | | | | | | | | |
| | (B) Statement 1 and 2 are true but statement 2 is not the correct explanation of statement 1. | | | | | | | | | | |
| | (C) Statements 1 and 2 are false | | | | | | | | | | |
| | (U)Statement 1 is true a | and statement 2 is false | | | | | | | | | |





| IIT-JEE | Educating for better tomo | | E # 4 | START-2012 An Initiative by Resonance Eduventures Pvt. Ltd. | | | | |
|---------|--|---|--|--|--|--|--|--|
| 29. | | dening and C acts as a co | tion with air produces dazzling white flame, B is used in onductor with rise in temperature. Then A, B, C are – (B) metalloid, metal, and non-metal respectively (D) metal, non-metal, metalloid respectively | | | | | |
| 30. | 2 | ands 'A' and 'B' formed are B' is Ca(HCO ₃) ₂ is Ca(OH)HCO ₃ and 'B' is Ca(HCO ₃) ₂ | | is dissolves on passing CO ₂ gas | | | | |
| 31. | Which among the follo (A) Euglena | wing is a connecting link (B) Virus | between living and non living ? (C) Fungi (D) Protozoa | | | | | |
| 32. | (i) It contains a single la | statement is / are true fo arge vacuole /eloped and lies in center (B) (ii) and (iii) | (ii) Outer most boundary is plasma membrane | | | | | |
| 33. | Virus contains (A) DNA only (C) RNA and DNA both | PLE | (B) RNA only (D) Either RNA or DNA but not both | | | | | |
| 34. | "Master gland" of the b (A) Hypothalamus | ody is (B) Pituitary | (C) Adrenal | (D) Pancreas | | | | |
| 35. | | a causative agent and ma 1. Bacteria 2. Fungus 3. Virus 4. Plasmodium - 4 | | nt. v - 1 | | | | |

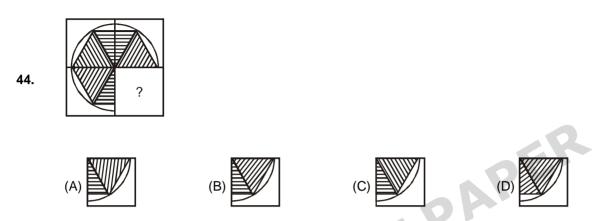
| | Resonance Educating for better tomo | rrow PAGE | | START-2012 An Initiative by Resonance Eduventures Pvt. Ltd. |
|--------|--|---|--|--|
| Direct | ions : (36 to 38) Find the | e missing terms : | | |
| 36. | 55, 210, ?, 820, 1275 (A) 465 | (B) 420 | (C) 410 | (D) 515 |
| 36. | BYCXA, EVFUD, HSIR (A) MNLOL (C) QJRIP | G, KPLOJ, ? (B) NMOLM (D) PKQJO | | |
| 38. | A ? D B 35 C D 189 E | | | PER |
| | (A) 64 | (B) 65 | (C) 66 | (D) 67 |
| 39. | If RED is written as 24 (A) 59 | and GREEN is written as (B) 45 | 44 then WHITE will be w (C) 60 | vritten as: (D) 65 |
| Direct | ion : (40) Arrange the fo formed. | llowing group such that w | when arranged in a spec | ific order, meaningful word is |
| 40. | D I F E R N 1 2 3 4 5 6 | | | |
| | (A) 1,4,3,6,2,5 | (B) 6,4,3,5,2,1 | (C) 3,5,2,4,6,1 | (D) 5,4,3,2,6,1 |
| 41. | | which has 45 people. In en are infront of Ram, ho | • | en member is double than the |
| | (A) 10 | (B) 9 | (C) 8 | (D) 7 |
| 42. | | houses, A to E, in a row. A ch of the houses is in the | - | o the left of C and right of A;B |
| | (A) A | (B) B | (C) D | (D) E |
| 43. | | n, a person says to his frier n the photograph related | | ghter of the elder brother of my |
| | (A) Niece | (B) Sister | (C) Aunt | (D) Sister-in-law |
| | | | | |



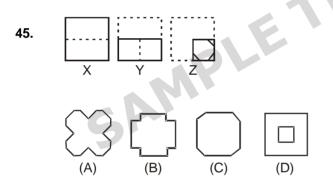




Direction : (44) In the following question, complete the missing portion of the given pettern by selecting from the given alternatives.



Direction : (45) A sheet has been folded in the manner as shown in X, Y and Z respectively and punched. You have to choose from the alternatives how it will look when unfolded.



Direction : (46) Find the month which is different from the others.

46. (A) April (B) May (C) July (D) September

- 47. How many squares are there in the figure?
 - (A) 5

(C) 7

- (B) 6
- (D) None of these

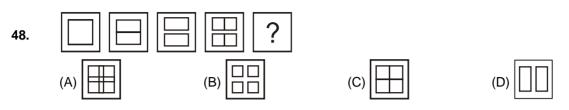




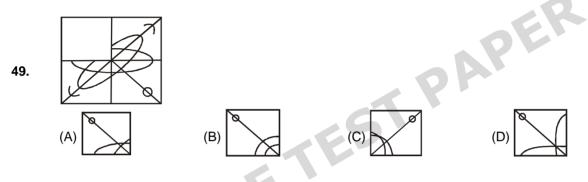
PAGE #7



Direction : (48) The figures in the question follow a series. Select the figure form the given alternatives which would continue the series.



Direction : (49) In the following question, complete the missing portion of the given pettern by selecting from the given alternatives.



50. If you are 15th in a queue starting from extreme end, how many persons are there in the queue? (A) 30 (B) 31 (C) 28 (D) 29

| AN | R | W | Ш | R |
|----|--------------|---|---|---|
| | K – A | | | |



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