



SET-A

## QUANTUM POTENTIAL TEST

[Quality Nurturer & Mind Utilizer Test for Potential Enhancement]

(IPEC Scholarship-Cum-Admission Test)

For

CLASS-VIII

(For VIII to IX Moving Students)

Time : 2 Hrs.]

[14-Oct-2018]

[Maximum Marks : 150

[PAPER-1]

Please read the instructions carefully. You are allotted 5 minutes specifically for this purpose.

### INSTRUCTIONS

1. The booklet is your Question Paper. Do not break the seal of this booklet before being instructed to do so by the invigilator.
2. Blank spaces and blank pages are provided in the question paper for your rough work. No additional sheets will be provided for rough work.
3. Blank papers, clipboards, log tables, slide rules, calculators, cameras, cellular phones, pagers and electronic gadgets are **NOT** allowed inside the examination hall.
4. The answer sheet, a machine-readable Optical Response Sheet (**ORS**), is provided separately.
5. On breaking the seal of the booklet check that it contains **14** pages and all the **50** questions.
6. A candidate has to write his / her answers in the ORS sheet by darkening the appropriate bubble with the help of **Black ball point pen** as the correct answer of the question attempted.
7. **Question Paper Format :**  
This question paper consists of **Two Parts**:  
**Part-I: IQ** (Mental Ability) - 25 Questions.  
**Part-II:** (Mathematics) - 25 Questions.
8. **Marking Scheme :**  
All **Questions** carries **+3** marks for correct answer and **Zero** for wrong answer

FOR ANSWER KEY VISIT OUR WEBSITE- [www.ipeeciit.com](http://www.ipeeciit.com)

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## PART -I [IQ]

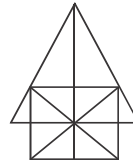
## [SINGLE CORRECTTYPE]

Each question has four choices (A), (B), (C) and (D) out of which only one is correct.

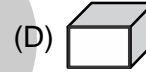
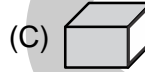
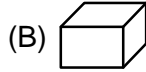
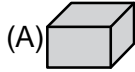
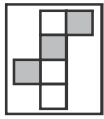
1. Natural : Artificial :: Jute : ?  
(A) NYLON (B) COTTON (C) SILK (D) MILK
2. Find odd one  
(A) Tiger (B) Wolf (C) Lion (D) Cat
3. According to Dictionary, correct sequence of following  
(i) Ambitious (ii) Ambiguous (iii) Ambiguity  
(iv) Animation (v) Animals  
(A) (iii), (ii), (i), (v), (iv) (B) (i), (ii), (iv), (iii), (v)  
(C) (v), (ii), (i), (iii), (iv) (D) (ii), (i), (iv), (v), (iii)
4. Square : Cube :: Circle : ?  
(A) Cylinder (B) Cone (C) Sphere (D) Triangle
5. Paper : Tree :: Glass : ?  
(A) Window (B) Sand (C) Soil (D) Mirror
6. 7 : 56 :: 9 : ?  
(A) 69 (B) 81 (C) 90 (D) 99
7. There are five Married sons of a couple, each has four children, then total members in that family?  
(A) 32 (B) 36 (C) 30 (D) 40
8. ACEG : DFHJ :: QSUW :  
(A) TVXZ (B) TQST (C) MNPR (D) EGIJ
9. BCFG JKNO RSVW .....  
(A) ZADE (B) HIKL (C) STUX (D) MNPQ
10. CIM, HNR, MSW  
(A) SXA (B) VYB (C) RXB (D) ZEH
11. If  $2Y6 = 32$ ,  $7Y4 = 27$  then  $7Y6 = ?$   
(A) 73 (B) 37 (C) 67 (D) 42
12. 5, 11, ..... 47, 95  
(A) 22 (B) 23 (C) 24 (D) 20

(Space for rough work)

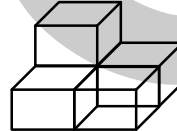
13. Total number of triangle  
 (A) 24 (B) 26  
 (C) 28 (D) more than 28



14. After folding the cubic box similar to



15. Total number of blocks  
 (A) 6 (B) 4  
 (C) 5 (D) 7



16. 2, 3, .....9, 17  
 (A) 6 (B) 7 (C) 5 (D) 8

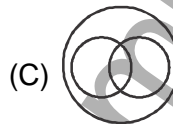
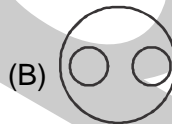
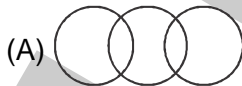
17. 7, 12, 22, .....?..... 82  
 (A) 41 (B) 42 (C) 52 (D) 44

18. Soap is related to wash in the same way as Boom is related to  
 (A) Clean (B) Dust (C) Sweap (D) Floor

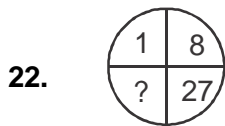
19. A man is facing south. He turns  $135^\circ$  in the anticlockwise direction and then  $180^\circ$  in the clockwise direction. Which direction is he facing now  
 (A) North - East (B) North - West (C) South - East (D) South - West

20. 2, 3, 6, 5, 10, 7.....9  
 (A) 4 (B) 8 (C) 14 (D) 12

21. Suitable diagram for Flowers, White, Cloths



(Space for rough work)



- (A) 41 (B) 64 (C) 35 (D) 61
23. ab \_\_\_\_\_ baa \_\_\_\_\_ ab \_\_\_\_\_  
 (A) baabb (B) aabab (C) aabaa (D) aaaaa
24. 5, 2, 7, 9, 16, 25 .....?.....  
 (A) 41 (B) 52 (C) 48 (D) 45
25. Select odd one  
 (A) X (B) Y (C) H (D) D

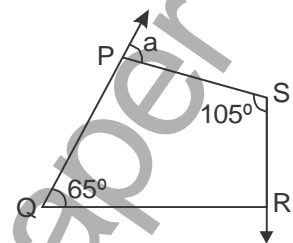
PART -II [Mathematics]

[SINGLE CORRECTTYPE]

Each question has four choices (A), (B), (C) and (D) out of which only one is correct.

26. In the adjacent figure angle P and angle R are in the ratio of 3:7, then the value of a is \_\_\_\_\_

- (A) 47°  
 (B) 57°  
 (C) 123°  
 (D) None of these



27. The value of x for which the two rational numbers  $\frac{3}{7}, \frac{x}{42}$  are equivalent, is  
 (A) 18 (B) 15 (C) 12 (D) 10
28. The value of  $\left(\sqrt{\frac{225}{729}} - \sqrt{\frac{25}{144}}\right) \div \sqrt{\frac{16}{81}}$  is  
 (A)  $\frac{1}{48}$  (B)  $\frac{5}{48}$  (C)  $\frac{5}{16}$  (D)  $\frac{1}{16}$
29. The surface area of a cube is 216 cm<sup>2</sup>. What is its volume ?  
 (A) 1296 cm<sup>3</sup> (B) 648cm<sup>3</sup> (C) 864cm<sup>3</sup> (D) 216cm<sup>3</sup>.
30. Which of the following rational numbers is the smallest ?

- $-\frac{5}{16}, -\frac{3}{4}, -\frac{13}{24}$  and  $\frac{7}{-12}$
- (A)  $-\frac{5}{16}$  (B)  $-\frac{3}{4}$  (C)  $-\frac{13}{24}$  (D)  $-\frac{7}{12}$

(Space for rough work)

31. If product of two numbers is  $25\frac{3}{8}$ . If one of them is  $15\frac{9}{40}$ , then other number is  
(A)  $\frac{2}{3}$  (B)  $1\frac{2}{3}$  (C)  $5\frac{2}{3}$  (D)  $\frac{9}{7}$
32. The length of the diagonals of a rhombus are 16cm and 12cm. The length of each side of the rhombus is  
(A) 8cm (B) 9cm (C) 10cm (D) 12cm
33. Which of the rational numbers  $\frac{-11}{28}, \frac{-5}{7}, \frac{9}{-14}, \frac{29}{-42}$  is the greatest ?  
(A)  $\frac{-11}{28}$  (B)  $\frac{-5}{7}$  (C)  $\frac{9}{-14}$  (D)  $\frac{29}{-42}$
34. Three angles of a quadrilateral are in the ratio 1:5:6. The mean of these angles is  $64^\circ$ . Find the fourth angle.  
(A)  $168^\circ$  (B)  $162^\circ$  (C)  $120^\circ$  (D)  $90^\circ$
35. The sum of the additive inverse and multiplicative inverse of 2 is  
(A)  $\frac{3}{2}$  (B)  $\frac{-3}{2}$  (C)  $\frac{1}{2}$  (D)  $\frac{-1}{2}$
36. If  $12 = 3 - \frac{3}{4}a$ , calculate the value of a.  
(A) 20 (B) 12 (C) -3 (D) -12
37. When a certain number m is divided by 5 and added to 8, the result is equal to 3m subtracted from 4. Then value of m is  
(A) 2 (B)  $\frac{4}{3}$  (C)  $\frac{-1}{3}$  (D)  $-\frac{5}{4}$
38. Kriti scored 80 marks in her Science test which is  $\frac{5}{6}$  of the total marks. The total marks of the test is  
(A) 96 (B) 100 (C) 104 (D) 108
39. The denominator of a rational number is greater than its numerator by 3. If 3 is subtracted from the numerator and 2 is added to its denominator, the new number becomes  $\frac{1}{5}$ . The original number is  
(A)  $-\frac{5}{8}$  (B)  $\frac{5}{8}$  (C)  $\frac{3}{8}$  (D)  $-\frac{3}{8}$

(Space for rough work)

40. A man is 5 years older than his wife and the wife is now thrice as old as their daughter, who is 10 years old. How old was the man when his daughter was born ?  
(A) 20 years (B) 35 years (C) 25 years (D) 30 years
41. If  $a, b, c, d$  and  $e$  are five consecutive natural numbers ( $a < b < c < d < e$ ) with  $a = 2$  and  $e = 17$  which of the following can be one of the possible values of mean of this numbers.  
(A) 1 (B) 0 (C) 11 (D) 22
42. What number should be subtracted from  $-\frac{3}{5}$  to get  $-2$  ?  
(A)  $-\frac{7}{5}$  (B)  $-\frac{13}{5}$  (C)  $\frac{13}{5}$  (D)  $\frac{7}{5}$
43. A student has to secure 40% marks to pass. He got 40 marks and failed by 40 marks. The maximum marks is  
(A) 160 (B) 180 (C) 200 (D) 320
44. The bisectors of any two adjacent angles of a parallelogram intersect at  
(A)  $30^\circ$  (B)  $45^\circ$  (C)  $60^\circ$  (D)  $90^\circ$
45. If one angle of a parallelogram is  $24^\circ$  less than twice the smallest angle then the largest angle of the parallelogram is  
(A)  $68^\circ$  (B)  $102^\circ$  (C)  $112^\circ$  (D)  $176^\circ$
46. A bar graph is drawn to the scale of  $1\text{ cm} = r$  units. The length of the bar representing a quantity 208 units is 2.6 cm. Find  $r$ .  
(A) 100 (B) 70 (C) 80 (D) 75
47. Given class intervals 0–8, 8–16, 16–24, 24–32, ....., 24 is considered in  
(A) 16–24 (B) 24–32 (C) 8–24 (D) 24–38
48. Anand's income and expenditure are in the ratio 5:2, find the central angle of the sector, representing Anand's savings  
(A)  $144^\circ$  (B)  $108^\circ$  (C)  $90^\circ$  (D)  $216^\circ$
49. Evaluate :  $\sqrt{6084}$   
(A) 78 (B) 76 (C) 84 (D) 87
50. What is the least number which should be subtracted from 3.26 to make it a perfect square ?  
(A) 2 (B) 0.2078 (C) 0.02 (D) 0.04

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(Space for rough work)



**SET-A**

## **QUANTUM POTENTIAL TEST**

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For

**CLASS-VIII**

**(For VIII to IX Moving Students)**

Time : 2 Hrs.]

[14-Oct-2018]

[Maximum Marks : 150

[PAPER-1]

### **(SAMPLE PAPER) ANSWER KEY**

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