

**R. C. Patel Educational Trust's**  
**R. C. Patel Arts, Commerce & Science College, Shirpur**

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**Aptitude Test**

1. If one-third of one-fourth of a number is 15, then three-tenth of that number is:  
A.35 B.36 C.45 D.54
  
2. Three times the first of three consecutive odd integers is 3 more than twice the third. The third integer is:  
A.9 B.11 C.13 D.15
  
3. The difference between a two-digit number and the number obtained by interchanging the positions of its digits is 36. What is the difference between the two digits of that number?  
A.3 B.4 C.9 D. Cannot be determined E. None of these
  
4. Two girls move in opposite directions, one from A to B and other from B to A. The girl from A reaches the destination in 16 hrs. and girl from B reaches her destination in 25 hrs., after having met. If former's speed is 25 km/hr., what will be the speed of latter?  
a) 10 km/hr b) 12 km/hr c) 16 km/hr d) 20 km/hr
  
5. 50 % of a number is 18 less than two-third of that number. Find the number.  
a. 123 b. 119 c. 115 d. 108
  
6. The sum of the digits of a two-digit number is 15 and the difference between the digits is 3. What is the two-digit number?  
A.69 B.78 C.96 D.Cannot be determined E.None of these
  
7. The sum of the squares of three numbers is 138, while the sum of their products taken two at a time is 131. Their sum is:  
A.20 B.30 C.40 D.None of these
  
8. A number consists of two digits. If the digits interchange places and the new number is added to the original number, then the resulting number will be divisible by:  
A.3 B.5 C. 9 D.11
  
9. Find the sum of two numbers, which are greater than 29 and have H.C.F. and L.C.M. of 29 and 4147 respectively.  
a. 858 b. 696 c. 1050 d. 4147
  
10. Find a positive number which when increased by 17 is equal to 60 times the reciprocal of the number.  
A.3 B. 10 C.17 D.20
  
11. Fate smiles..... those who untiringly grapple with stark realities of life.  
A. with B. over C. on D. round
  
12. My uncle decided to take..... and my sister to the market.  
A. I B. mine C. me D. myself
  
13. It..... that Prashant will not be selected for the post.  
A. feels B. looks C. believes D. seems

14. I haven't seen you ..... a week.  
A. within B. since C. for D. From
15. This, partly, explains how the Mehta family has been able to ..... its lavish lifestyle in recent times, despite the fact that all its assets have been .....  
A. Keep, removed B. Afford, attached C. Develop, liquidated D. Keep up, destroyed
16. If our friends are not able to take us in their car, we must make ..... arrangements to go to the airport.  
A. Alternative B. another C. alternate D. possible
17. You haven't had your lunch yet, you?  
A. Are B. aren't C. have D. haven't
18. You've only three months to complete the course, don't give ..... now.  
A. out B. away C. up D. off
19. She .....Rs 80 out of the bank every Friday.  
A. Obtains B. draws C. pulls D. extracts
20. It is not what you say that ..... but what you do  
A. Matches B. implies C. matters D. moves
21. Which of the following type of class allows only one object of it to be created?  
A. Virtual class B. Abstract class C. Singleton class D. Friend class
22. Which of the following is not a type of constructor?  
A. Copy constructor B. Friend constructor C. Default constructor D. Parameterized constructor
23. Which of the following statements is correct?  
A. Base class pointer cannot point to derived class. B. Derived class pointer cannot point to base class. C. Pointer to derived class cannot be created. D. Pointer to base class cannot be created.
24. Which of the following is not the member of class?  
A. Static function B. Friend function C. Const function D. Virtual function
25. Which of the following concepts means determining at runtime what method to invoke?  
A. Data hiding B. Dynamic Typing C. Dynamic binding D. Dynamic loading
26. Which of the following term is used for a function defined inside a class?  
A. Member Variable B. Member function C. Class function D. Classic function
27. Which of the following concept of oops allows compiler to insert arguments in a function call if it is not specified?  
A. Call by value B. Call by reference C. Default arguments D. Call by pointer
28. How many instances of an abstract class can be created?  
A. 1 B. 5 C. 13 D. 0
29. Which of the following cannot be friend?  
A. Function B. Class C. Object D. Operator function
30. Which of the following concepts of OOPS means exposing only necessary information to client?  
A. Encapsulation B. Abstraction C. Data hiding D. Data binding

## Advance aptitude questions

- 1) Which of the following is a prime number?
  - a) 571
  - b) 517
  - c) 533
  - d) 559
- 2) The value of  $x$  in  $3611 \times 3611 - x \times 11 \times 1211 + 2511 \times 2511 = 1$ 
  - a) 150
  - b) 50
  - c) 100
  - d) 125
- 3) When a certain number is multiplied by 21, the product consists entirely of 3's. What is the minimum number of 3's in the product?
  - a) 6
  - b) 7
  - c) 5
  - d) 8
- 4) What is the 999<sup>th</sup> digit of  $(56700)^{499}$  from right side?
  - a) 3
  - b) 7
  - c) 0
  - d) 9
- 5) Find the sum of first 50 terms of the series.  
 $12+14-18-12-14+18+12+14-18-12-14+18.....$ 
  - a)  $1/2$
  - b)  $3/8$
  - c)  $5/8$
  - d)  $3/4$
- 6) Every prime number of the form  $3x + 1$  can be represented in the form  $6y + 1$  where,  $x$  and  $y$  are integers, then what should be the values of  $x$ ?
  - a) Odd number
  - b) Perfect square
  - c) Natural number
  - d) Even number
- 7) Find the rational number lying between  $\sqrt{7}$  and  $\sqrt{8}$ .
  - a)  $12/5$
  - b)  $14/5$
  - c)  $22/9$
  - d)  $23/9$
- 8) Consider the following statements.
  - I. There are finite number of rational numbers between 51 and 52.
  - II. There are infinite number of rational numbers between 99 and 100.
  - III. There are finite number of irrational numbers between  $\sqrt{2}$  and  $\sqrt{3}$ .Which of the statement(s) given above is/are correct?
  - a) Only I
  - b) Only II
  - c) Only III
  - d) Both I & III

9) What is unit's digit in the product?

$$91 \cdot 92 \cdot 93 \cdot \dots \cdot 99$$

- a) 0
- b) 1
- c) 2
- d) 3

10) Find the units digit of the expression  $25^{6785} + 36^{728} + 73^{62}$ .

- a) 0
- b) 1
- c) 4
- d) 6

11) What is the value of  $3.48 \cdot 3.48 - 1.52 \cdot 1.52$ ?

- a) 5
- b) 1.96
- c) 1.52
- d) 9.8

12) What will be the maximum sum of 72, 69, 66, .....?

- a) 900
- b) 897
- c) 882
- d) 903

13) Find the value of  $98765 \cdot 3125$ .

- a) 308680625
- b) 308640625
- c) 309640625
- d) 308860625

14) A number when divided by 91 leaves a remainder 65. If the same number is divided by 13, find the remainder.

- a) 12
- b) 5
- c) 0
- d) 7

15) Find the number of zeroes at the end of the product of the numbers from 1 to 75.

- a) 24
- b) 20
- c) 18
- d) 22

16) Find the highest power of 11 that completely divides  $130!$ .

- a) 8
- b) 14
- c) 12
- d) 10

17) Which of the following is/are true?

I. For a number to be divisible by 19, multiply last digit by 2 and add it to the rest of the number and the answer should be a multiple of 19.

II. For a number to be divisible by 29, multiply last digit by 3 and subtract it to the rest of the number and the answer should be a multiple of 29.

- a) Only I
- b) Only II
- c) Both I & II
- d) Neither I nor II

- 18) What digits should come in place of A and B if the number 1456A6B is divisible by both 5 and 8?
- a) 4 and 5
  - b) 6 and 5
  - c) 3 and 0
  - d) 8 and 0
- 19) Find the HCF of 405, 585, 765 and 900.
- a) 45
  - b) 90
  - c) 35
  - d) 15
- 20) A man's investment doubles in every 10 years. If he invested Rs.10000 in each of the years of 1980, 1990 and 2000, then what was the total amount received by him in 2010?
- a) 160000
  - b) 140000
  - c) 120000
  - d) 160000
- 21) Which of the following values of angle of depression is not possible?
- a) 91 degree
  - b) 78 degree
  - c) 83 degree
  - d) 56 degree
- 22) Find odd one out from the given jumbled words.  
**LNUAIMMIU, ELEST, OPERPC, NMKOYE, INCKLE**
- a) NMKOYE
  - b) OPERPC
  - c) INCKLE
  - d) ELEST
- 23) Find the odd one out.
- a) **M**
  - b) **S**
  - c) **T**
  - d) **O**
- 24) If the letters of the word "PRODUCT" are arranged alphabetically, then which letter would be farthest from the second letter of word?
- a) T
  - b) R
  - c) U
  - d) P
- 25) If 'A&B' means A is father of B, 'A\*B' means A is brother of B, 'A\$B' means A is mother of B then which of the following is correct about K\$T&M?
- a) M is brother of T
  - b) T is son of K
  - c) M is father of T
  - d) K is mother of M
- 26) BFNM : EIQP :: RBGJ : ?
- a) GHJK
  - b) WXYZ
  - c) UEJM
  - d) ABCD

27) Hardworking: Determined:: Happy : ?

- a) Sad
- b) Upbeat
- c) Lovely
- d) Hilarious

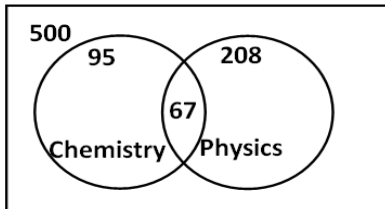
28) Good : Ample :: Droll : ?

- a) Corpulent
- b) Quiet
- c) Recede
- d) Humorous

29) In a row of 26 girls, when Sakshi shifted four places towards the left, she became 10<sup>th</sup> from the left end. What was her earlier position from the right end of the row?

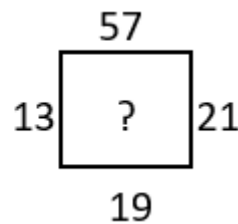
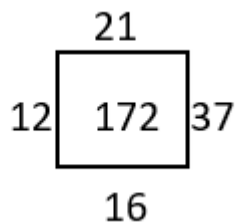
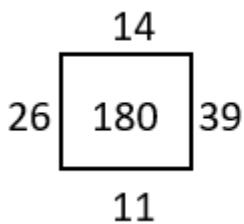
- a) 10<sup>th</sup>
- b) 11<sup>th</sup>
- c) 13<sup>th</sup>
- d) 12<sup>th</sup>

30) From the figure given below, determine the number of students who did not study any of the two subjects.



- a) 175
- b) 295
- c) 264
- d) 135

31) Find the correct alternative which will replace the question mark?



- a) 107
- b) 285
- c) 220
- d) 164