



(Dir1-5) Find out antonyms:

1) Scrupulous

A) understood B meticulous C careless D rude E witty Ans c

2) Tacit

A calm B silent C intelligent D spoken E rude Ans D

3) Lustrous

A dull B freaky c delicious D spicy E gloomy Ans A

4) Admonish

A taunting B appreciate C scold E faint E shrilly Ans B

5) Raucous

A silky B hairy C decent D freaky E noisy Ans C

(Dir 6-15) Find out synonyms

6) Invidious

7) Vigilant



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8) Replete

9) Implode

10) Impervious Ans

11) Communiqué

12) Impertinent

(Dir 13-17) Fill In The Blank

The13..... nature of internet and in the its increasing ...14..... of users because of its underlying15.....has made enhancements in its...16..... and compatible for.....17.....

Ans pervasive

Ans number

Ans advantages

Ans features

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Ans organizations

MATHS:

1) A rhombus has area 432 sq m, one diagonal is 36 cm. find other diagonal ? Ans 24 cm

2) An equilateral triangle has perimeter a cm . find its area . Ans $\frac{a^2\sqrt{3}}{12}$

3) Average of seven nos is 25. avg of first three of them is 35 while last three of them is 20. find 4th no. Ans 10

4) Find avg of all nos. which lies b/w 1 and 100 & r divisible by 7. Ans. 52.5

5) Avg of three nos is 33. first one is as much more than avg as third one is less than avg. Ans 33

6) Find sum of series: $1 + 0.1 + 0.001 + 0.0001 + \dots$ Ans: $\frac{10}{9}$

7) If price of t.v set is reduced by 20%, then its sale increases by 80%, find net effect on sale value Ans 44% more

8) How much a decimal of $\frac{1}{3600}$? Ans 0.00027

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- 9) $F(x)$: sq root of x , $g(x)$: cube root of x , then find value: $f(f(x)+g(x))$ Ans 1.0
- 10) Find local max & min of $2 + f(2x^2+ 3x +1)$?
- 11) Find the point which is nearest to (1,2,3)
- 12) Find $\det \begin{pmatrix} 1 & 2 & 3 \\ 4 & 5 & 6 \\ 7 & 8 & 9 \end{pmatrix}$
- 13) Integration of which is maximum for $\int_0^1 f(x) dx$? a) $2x$ b) $2x^2$ c) $2x^3$ d) 2 const fn Ans d
- 14) Find vector perpendicular to $2i + 5j + 4k$ Ans $2i-12j+7k$
- 15) Speed of boat in still water is 9km/h . if boat moves upstream A to B in 2 hrs. & B to A in 1 hrs. Then find distance b/w A&B Ans 12
- 16) What no should be subtracted from 92555 to make it a perfect square ? Ans: 39
- 17) The probability of a student possessing a ball point pen in exam is $\frac{3}{5}$ & possessing an ink pen is $\frac{2}{3}$. find his probability of possessing at least one of them . Ans $\frac{13}{15}$.
- 18) In an interview , the probability of appointing Husband is $\frac{1}{5}$ while that of wife is $\frac{1}{4}$.find probability that only one of them get selected in interview. Ans : $\frac{1}{4}$
- 19) Find the probability that a five digit no formed by 1,2,3,4,5 (not repeated) are divisible by 4. Ans : $\frac{3}{20}$.

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20) Find the probability in a group of 10 students sitting in a row , two of them always sit next to each other. Ans: (1/9) (not sure , u try urself)

21) A clock hand overtakes hour hand in 65 min the in how much time it will cover 65 time **** Ans none of all(refer to r.s . agg)

22) If no of employees are reduced by ratio x:y & their wages are increased by ratio p:q. then find the ratio to which their wages bill decreases Ans: xp: yq

23) Three sides of a triangle are given 15,11,7, find cosine of angles ? Ans : apply formula $\cos A = \frac{b^2+c^2-a^2}{2*c*b}$, $\cos B = \frac{a^2+b^2-c^2}{2*a*b}$;

24) If a tap could fill entire tank in 18 hrs due to leakage, then in how much time tank can be emptied by leakage if tap can fill entire tank in 12 hrs without leakage?

25) Three liquids were mixed in 5:4:1 ratios. If cost per kg for ach of them is 4.50, 3.75& 5.10. Then in what price mixture should be sold to get 25% profit?

26) Two commodities have cost per kg is 4.75Rs & 3.20Rswere mixed in a certain ratio so as to make cost price of mixture as 17.75 Rs. Find the ratio Ans 4:1.

1. A man of letters

2. A man of straw

3. To be in the air

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4. To bite the dust

5. Man of few words

6. Penny wise pound foolish.

7. Find the remainder when 333666777888999 is divided by 3 or 9 or 11 ?

8. Which is the biggest perfect square amongst the following:-

15129, 12348, 23716, 20736

9. The greatest area of the following

(a) The radius of circle is 4

(b) The square of diagonal is 4

(c) The square of side is 4

10. The area of the maximum size of the circle described from the 10 square inch square?

11. In the series 0, 3, 8, 15, __, What is the next number?

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12. $X < 0, Y < > 0$

then what is the possibility that the result is always positive?

Ans: xy

13. 3 red and 4 blue balls are in a basket. A member of PPTeam is drawing balls from the basket. What is the probability of getting the 3 red balls simultaneously?

14. Let $ax^2 + bx + c = 0$

If the sum of the equal roots is equal to the product of the same roots. Then which of the following hold true?

(a) $a + b = 0$

(b) $a = 0$

(c) $c = 0$

(d) $a + c = 0$

15. A gold density is 19 times greater than the water and for copper it is 9 times. At what ratio you can mix gold and copper to get 15 times denser than water.



Ans: 3 : 2

16. Find the value of $(1.99)^2$

Ans: 3.9601

17. There is a room with 6' x 8'. A 1' tile is fixed along the 4 walls in one row. How many 1" tiles require to finish the work.

Ans: 24

18. 2 persons can finish a job in 8 days. First person alone can finish the work in 24 days. How many days does the second person take to finish the job?

Ans: 12 days

19. A 4" cube is painted in all its faces and then it is cut down into 1" blocks. How many 1" blocks are there even without a single face being painted?

Ans: 8

20. A cylinder is inserted in a sphere $d/h = 2/3$. Find the surface area of the cylinder?



21. In a car wheel, two spokes cover 15 degree. Then for the entire car, how many spokes are there?

Ans: 24

22. What is the angle of degree suspended when two hands of clock showing the time 2:30?

Ans: 105 degrees

23. The age difference between two brothers is 3 years. After 6 years the ratio between the age is 9:8. What are their ages?

Ans: 21 and 18

24. A person's salary is getting reduced by 20%. What percentage should be added to get back his original salary?

Ans: 25%

25. Two persons start at the same point, walk in opposite directions with 5 km/hr and 5.5 km/hr respectively. What is the distance separated after 2 and half hrs?

Ans: 26.25 (approx)



26. A person starts walking at a speed of 5 km/hr through half the distance, rest of the distance he covers with a speed 4km/hr. Total time of travel is 9 hours. What is the maximum distance he can cover?

Ans: 40km

27. Initially two cups of same volume are present with milk filled upto $\frac{3}{5}$ th and $\frac{4}{5}$ th of their volumes. Water is then filled. Then two mixtures are mixed. Find the ratio of water to milk in the mixture.

Ans: 3 : 7

28. 16 grams of radioactive material decays into 8 grams in 10 years. How long will it take to decay to 1 gram?

Ans: 70 yrs

29. In a rectangle the length is increased by of the original length. By what proportion should the width be reduced so that the area will be the same?

Ans: $\frac{3}{4}$

30. Find the nth number in the series is 1, -3, 5, -7.....

Ans: $(-1)^{n+1}(2n-1)$



31. If a square is formed by the diagonal of the square as an edge, what is the ratio between the area?

Ans: 2

32. The perimeter of a rhombus is 52 units. One of its diagonal is 24 units. What is its second diagonal length?

Ans: 10

33. A cubical rectangular bar has the dimensions with the ratio 5 : 4 : 3. Its volume is 7500. What is the surface area of the bar?

Ans: 2350

34. In a class total 34 students, 16 are have a brother, 15 are have sisters, 9 students don't have either brothers or sisters. Find the number of students having both brother and sisters.

Ans: 6

35. A batsman scored 18 runs in his 18th innings and that makes his average 18. Find his average upto the 17th innings?

Ans: 19



36. 6 women can do 75 units of work in 8 days by working 5 hrs/day. In how many days can 4 women do 30 units of work by working 8 hrs/day?

37. A persons salary is decreased by steps of 20%, 15% and 10%. What will be the percentage decrease, if the salary is decreased in a single shot?

38. The ratio of the length : breadth : height of a cuboid is 5 : 4: 3, and the volume is 7500. What will be its surface area?

39. If the circumference of a circle is 100 units, Then what will the length of the arc described by an angle of 20 degree?

40. 3 Persons started placement papers with a capital of Rs.3000. B invest Rs.600 less than A, C invest Rs.300 less than B. Then what is the share amount of B in a profit of Rs.886?

Directions for 41-50: Which of the following is the correct spelling for the word.

41. Supercede and Supersede

42. Recommend and Reccomend

43. Superintendent and Superitendant

44. Separate and Seperate

45. Succeed and Suceed

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46. Coolly and Cooly

47. Despair and Dispair

48. Ridiculous and Rediculous

49. Indespensible and Indepensable

50. Tranquility or Tranquillity

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