QUESTION PAPER

Standard: 9TH& 10TH

Sub: Mathematics

- 1. From the choices given below mark the co-prime numbers.
 - (a) 2, 3
 - (b) 2, 4
 - (c) 2, 6
 - (d) 2, 110
- 2. If the sides of a triangle are 26cm, 24cm and 10cm. What is its area?
 - (a) 120 cm sq
 - (b) 130 cm sq
 - (c) 312 cm sq
 - (d) 315 cm sq
- 3. An example of a whole number is
 - (a) 0
 - (b) -1/2
 - (c) 11/7
 - (d) -4
- 4. Find the co-ordinates of a point on x-axis, which is at a distance of 5 units from the point (6, -3).
 - a) (2, 0) and (10, 0).
 - b) (0,2) and (0,10).
 - c) (2, 10) and (0, 0).
 - d) None of these
- 5. How old will I be after 10 years, if my age before 10 years was 'x' years?
 - (a) X + 20
 - (b) X 20
 - (c) X + 10
 - (d) X 10
- 6. If 2x/5 = 4, the value of x is-
 - (a) 10

- (b) -10
- (c) -8/5
- (d) 8/5
- 7. What is the probability that a number selected from the numbers (1, 2, 3,.....,15) is a multiple of 4?
 - (a) 1/5
 - (b) 4/5
 - (c) 2/15
 - (d) 1/3
- 8. The probability of a non- leap year should have only 52 Sunday is:
 - (a) 53/ 366
 - (b) 6/7
 - (c) 2/7
 - (d) 53/365
- 9. If x a is a factor of P(x), then P(a) should be
 - (a) 1
 - (b) 0
 - (c) a
 - (d) –a
- 10. Find the area of the parallelogram with base 24 cm and height 16 cm.
 - (a) 262 cm^2
 - (b) 384 cm^2
 - (c) 131 cm^2
 - (d) None of these
- 11. The area of square is equals to five times the area of rectangle of dimensions 125cm * 64cm. What is the perimeter of the square?
 - (a) 700 cm
 - (b) 800 cm
 - (c) 900 cm
 - (d) 300 cm
- 12. Find the position of 62 in the following series 2, 5, 8,?
 - (a) 26
 - (b) 21
 - (c) 23
 - (d) 20

- 13. If x units are added to the length of the radius of a circle, what is the number of units by which the circumference of the circle is increased?
 - (a) 2
 - (b) 2 x
 - (c) x
 - (d) x2
- 14. An order was placed for the supply of a carper whose length and breadth were in the ratio of 3 : 2. Subsequently, the dimensions of the carpet were altered such that its length and breadth were in the ratio 7 : 3 but were was no change in its parameter. Find the ratio of the areas of the carpets in both the cases.
 - (a) 7:8
 - (b) 8:7
 - (c) 6:7
 - (d) 5:6
- 15. Factorization of $x^3 + 8$ is equal to
 - (a) $(x + 2)(x^2 x + 2)$
 - (b) $(x+2)(x^2+x-2)$
 - (c) $(x+2)(x^2 2x + 4)$
 - (d) $(x+2)(x^2+2x+4)$
- 16. A bag contains 3 red and 2 blue marbles. A marble is drawn at random. The probability of drawing a black ball is :
 - (a) 3/5
 - (b) 2/5
 - (c) 0/5
 - (d) 1/5

17. Find the ratio in which the line joining the points (6, 4) and (1, -7) is divided by x-axis.

- (a) 1:3
- (b) 2:7
- (c) 4:7
- (d) 5:7
- 18. The probability that it will rain tomorrow is 0.85. What is the probability that it will not rain tomorrow
 - (a) 0.25
 - (b) 0.145
 - (c) 3/20
 - (d) none of these
- 19. If three coins are tossed simultaneously, than the probability of getting at least two heads, is

- (a) $\frac{1}{4}$ (b) $\frac{3}{8}$ (c) $\frac{1}{2}$
- (d) 1/8
- 20. A.P whose nth term is 2n-1 is
 - (a) 1,3,6,...
 - (b) 2,3,5,...
 - (c) 1,3,5,...
 - (d) 5,3,1,...
- 21. The sum of n terms of an A.P. is $3n^2 + n$, find the *n*th term.
 - (a) 6n 4
 - (b) 4n 4
 - (c) 6n 2
 - (d) 4n-2
- 22. Find the sum of the following series
 - $3 + 7 + 11 + 15 + \dots$ To 30 terms
 - (a) 1920
 - (b) 1970
 - (c) 1830
 - (d) 1740
- 23. The number 1.101001000100001... is
 - (a) A natural number
 - (b) A whole number
 - (c) A rational number
 - (d) An irrational number
- 24. If the decimal representation of a number is non-terminating, non-repeating then the number is
 - (a) A natural number
 - (b) A rational number
 - (c) A whole number
 - (d) An irrational number

- 25. The vertices of a ABC and given by A(2, 3) and B(-2, 1) and its centroid is G. Find the coordinates of the third vertex C of the ABC.
 - (a) (0, 2)
 - (b) (1, -2)
 - (c) (2, -3)
 - (d) (-2, 3)

26. An equilateral triangle is also an

- (a) isosceles triangle
- (b) Reflective triangle
- (c) Scalene triangle
- (d) Equiangular triangle

ANSWERS

- 1. A
- A
 A
- 4. A
- 5. A
- 6. A
- 7. A
- 8. B
- 9. B
- 10. B
- 11. B
- 12. B
- 13. B 14. B
- 15. C
- 16. C
- 17. C
- 18. C
- 19. C
- 20. C
- 21. C
- 22. C
- 23. D
- 24. D
- 25. D 26. D
- LU. D