Paper: _Maths_____ Total Marks: _48_____

Month Test: _November_____ Obt. Marks: _____

Theme/Unit: __1 - 12_____ Grand Total: __100_____

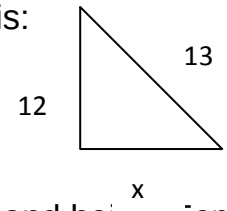
Objective: ID: _____ Time: _____

Name: _____ class: ___8th _____ Section: _____

Q. No. 1: Encircle the correct option: /48

1. If U = {1, 2, 3, 4, 5, 6} and A = {1, 2, 3} then complement of set A will be:
   a. {1, 2, 3} c. {2, 4, 6}
   b. {1, 3, 5} d. {4, 5, 6}
2. The number of all possible subsets of {a, b, c} is:
   a. 3 b. 4 c. 5 d. 8
3. The power set of {Φ} is:
   a. {} , {Φ} c. { { }, 0 }
   b. { {0}, {Φ} } d. { Φ , {Φ} }
4. The rational number among the following is:
   a. $\sqrt{2}$ c. $\sqrt{4}$
   b. $\sqrt{3}$ d. $\sqrt{5}$
5. The additive inverse of ¾ is :
   a. 3/5 b. – 3/5 c. 5/3 d. -5/3
6. $(4)_5 + (4)_5 =$
   a. $(3)_5$ b. $(13)_5$ c. $(20)_5$ d. $(31)_5$
7. $(33)_5 * (22)_5 =$
   a. $(1100)_5$ b. $(1210)_5$ c. $(1331)_5$ d. $(4310)_5$
8. If 20 men construct a building in 40 days in how many days will 10 men construct the same building?
   a. 10 b. 20 c. 40 d. 80
9. The square root of 289 is:
   a. 13 b. 15 c. 17 d. 19
10. 1% of 1 is equal to:
    a. 0.01 b. 0.001 c. 0.1 d. 1
11. If Ahmed's monthly salary is Rs. 15000 and rebate in tax is Rs. 80000 then his taxable income will be:
    a. Rs. 80000 c. Rs. 120000
    b. Rs. 100000 d. None
12. $(5a + 3b)^2$
    a. $25a^2 + 30ab + 9b^2$ c. $25a^2 + 8ab + 9b^2$
    b. $25a^2 + 15ab + 9b^2$ d. $25a^2 + 2ab + 9b^2$
13. $x^2-81 =$
    a. (x-9)(x-9) c. (x-9)(x+9)
    b. (x+9)(x+9) d. None
14. Factorization of x^2 -4x + 3 is:
    a. (x-3)(x-1) c. (x+3)(X+1)
    b. (x+3)(x-1) d. None
15. A linear equation in two variable is:
    a. 2x + 3y = 4 c. 2x + 3 = 4
    b. 2/x + 3/y = 4 d. 2x + 3/y = 4

16. Value of x in given figure is:



a. 1
b. 5
c. 13
d. 25

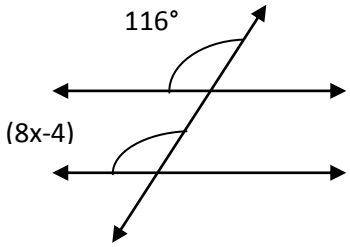
17. If a cone has radius 2 cm and height 5cm then its volume will be:
a. 4/7 cm^3
b. 88/7 cm^3
c. 440/21 cm^3
d. 1760/21 cm^3

18. Total surface area of a cone with base radius r and slant height l is:
a. πrl
b. $2\pi rl$
c. $\pi r(l+r)$
d. $\pi l(l+r)$

19. A polygon consisting of five sides called?
a. Rectangle
b. Pentagon
c. Hexagon
d. Octagon

20. The measure of each interior angle of a regular hexagon is:
a. 90°
b. 108°
c. 120°
d. 135°

21. In given figure value of x is:



a. 14
b. 15
c. 112
d. 120

22. Akram bought a mobile for Rs. 2000 and sold it for Rs. 1800. His lons %age is:
a. 5% b. 7.5% c. 10% d. 11.1%

23. The number of variable in polynomial xy^3-y^2+y-1 is:
a. 1 b. 2 c. 3 d. 4

24. $(x^2-y^2) – (x + y)$ =
a. x^2-y b. $X + y^2$ c. X-y d. X+y

25. The median of data 1, 4, 5, 2, 6, 8, 10 is
a. 2 b. 5 c. 6 d. 10

26. The mode of 2, 3, 4, 3, 2, 5, 2, 4, 4, 5, 4, 6, 4 is:
a. 2 b. 4 c. 3 d. None

27. Using Hero's formula, area of _____ is calculated
a. Circle
b. Cone
c. Triangle
d. Cylinder

28. Number system used in computer system is:
a. Decimal
b. Binary
c. Base 5
d. Base 8

29. 90° = _____
a. $\sqrt{2}$ b. 0 c. 1 d. None

30. Base / hypotenuse = _____
a. Sinθ
b. Cosθ
c. Tanθ
d. Cotangentθ

31. How many Canadian dollars are in Rs. 5092? (1 canadian dollar=Rs.76)
a. 67 b. 76 c. 5016 d. 5168

32. The median of data 45, 35, 56, 36, 49 is:
a. 35 b. 49 c. 45 d. 56