

# 8<sup>th</sup> Maths – 2<sup>nd</sup> Term Model Question Paper 2018

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CLASS: VIII

EXAM NO

SUBJECT: MATHEMATICS

MARKS:60

DATE: 06/12/2018

TIME:2.00 HOURS

### SECTION -A Answer ALL Questions in the following

#### I.Choose the best answer

10 x 1=10

- 1.The power of the term  $x^3 y^2 z^2$  is \_\_\_\_\_  
a) 3      b)12      c) 2      d) 7
2. $9.6^2$  is equal to \_\_\_\_\_  
a) 9216      b)93.6      c) 9.216      d) 92.16
- 3.\_\_\_\_\_ is the only even prime number  
a) 1      b) 2      c) 4      d) none
- 4.The product of  $(x-1)(2x-3)$  is \_\_\_\_\_  
a)  $2x^2-5x-3$       b)  $2x^2-5x+3$       c)  $2x^2+5x-3$       d) $2x^2+5x+3$
- 5.A linear equation in one variable has a \_\_\_\_\_ solution  
a) unique      b) Two      c) Three      d) no
- 6.A parallelogram in which the adjacent sides are equal is called a \_\_\_\_\_  
a) square      b) rectangle      c) rhombus      d) triangle
- 7.Area of rhombus= \_\_\_\_\_ sq.units  
a)  $a \times a$       b)  $l \times b$       c)  $\frac{1}{2} \times d_1 \times d_2$       d) $\frac{1}{2} \times d_1 + d_2$
8. $(-3,2)$  lies in \_\_\_\_\_ quadrant  
a) I      b) II      c) III      d) IV
- 9.when we get a straight line by joining any two points is called \_\_\_\_\_  
a) geometry      b) linear graph      c) curve      d) none of these
10. $(8,-9)$  lies in \_\_\_\_\_ quadrant  
a) I      b) II      c) III      d) IV

#### II.Fill in the blanks

5x1=5

11. An algebraic expression that contains three terms are called \_\_\_\_\_
12. \_\_\_\_\_ is a factor of any number
13. The product of monomial is also \_\_\_\_\_
- 14.The process of expression any polynomial as a product of its factor is called \_\_\_\_\_
- 15.only like terms can be \_\_\_\_\_

#### III.Match the following

4x1=4

- |               |   |                   |
|---------------|---|-------------------|
| 16. $(a+b)^2$ | - | III quadrant      |
| 17. $(a-b)^2$ | - | II quadrant       |
| 18. $(5,9)$   | - | $a^2 + b^2 + 2ab$ |
| 19. $(-3,-3)$ | - | $a^2 + b^2 - 2ab$ |

### Section-B Answer ANY-10 questions from the following

**IV. Do the problem****10x2=20**

20. Identify the terms and their coefficient of the following

a)  $3abc - 5ca$

b)  $x/2 - y/2 - 0.3xy$

21. Find the product a)  $2a, 3a^2, 5a^4$  b)  $-2p, -3q, -5p^2$ 22. Find the product  $(2x)(3x+5)$ 23. Find using suitable identity  $(2x-5)(2x-5)$ 24. Find  $(3x+5)^2$ 25. Evaluate  $103^2$ 26. Show that  $(3x+7)^2 - 84x = (3x-7)^2$ 27. Factorize  $x^2 + 6x + 9$ 28. Factorize  $2a^5b^3 - 14a^2b^2 + 4a^3b$ 29. Simplify  $(5x+10) \div (x+2)$ 30. Solve  $9/2m + m = 22$ 

31. Find the two consecutive positive odd integer whose sum is 32

32. Identify the quadrants A (2,3) B (-3,2) C (-5, -5) D (5, -8)

**Section-C Answer ANY-5 questions from the following****V. Do the sums****5x3=15**33. Subtract  $3x^2y - 2xy + 2xy^2 + 5x - 7y - 10$  from  $25 - 2x + 5y - 11xy + 2xy^2 + 8x^2y$ 34. Find  $(m-n)(m^2 + mn + n^2)$ 35. Subtract  $3a(a-2b+3c)$  from  $4a(5a+2b-3c)$ 36. If  $(x+l)(x+m) = x^2 + 4x + 2$  find  $l^2 + m^2$  and  $(l-m)^2$ 37. Factorize  $x^2 - 14x + 45$ 38. Solve  $(a^2 + 24a + 144) \div (a+12)$ 

39. Arun selling a car for Rs.1,40,000 man suffered a lost of 20% what was the cost prize of the car?

40. Ashok deposited Rs.10,000 in a bank at the rate off 8% per annum. Draw a linear graph to show that the simple interest time relationship. Also find the simple interest for 5 years

**Section-D Answer ALL the questions****VI. Do the following****2x3=6**

41. Construct a rectangle having adjacent side of 6cm and 4cm. Find its area (or)

42. Construct a Rhombus ABCD with AB=7cm A=60 and find its area

43. Draw a graph to show that area-side of a square (or)

44. Plot the points and find the area and perimeter of the area enclosed figure A (3,1) B (3,6) C (-5,6) D (-5,1)

Prepared by Mr. Santhosh.