ST. JOHN'S PUBLIC SCHOOLCBSE,NAGPUR
SECOND TERM EXAMINATION (2019—20)

Name : ____ **Subject: Maths** **Max. Mks50**

Roll No. :_____ **Class : VII**

Time :3Hrs

Date : __ **Session : - 2019**

No. Of Ques.20

SECTION - A

(1/2x20 = 10 m)

Q.1 Tick the correct answer :

1) The price at which you sell is known as the _____
   a) CP b) Profit c) SP

2) _____ is the part of a plane occupied by closed figure.
   a)Area b) Perimeter c) Boundary

3) An expression which contains three terms is called a _____.
   a) monomial b) binomial c) trinomial

4) Perimeter of equilateral triangle is _____.
   a)5 l b) 3 l c) 4l

5) $(-2)^3$ = ____
   a) - 8 b) 4 c) 8

6) A cube has _____ faces.
   a) 5 b) 6 c) 7

7) $(-1)^{\text{even number}}$ =_____
   a) 0 b) 1 c) - 1

8) Area of parallelogram = _____
   a) $\frac{1}{2}$ x b x h b) b x h c) Πd

9) Numbers x and y both squared and added is _____.
   a) $(x + y)^2$ b) $x^2 + y^2$ c) 2 x y

10) If radius is 7 cm , what will be the diameter ?
    a) 4.5 cm b) 14 cm c) 21 cm

Q.2 Solve :

1) Convert 0. 65 to percent .
2) Convert 3 : 1 to percentage .
3) Give four rational numbers equivalent to $\frac{-2}{7}$.
4) Find value of : $-4 \div \frac{2}{3}$
5) Identify terms and their factors by tree diagram:

$5xy^2 + 7x^2y$

6) Classify monomials, binomials and trinomials :

a) 4y - 7z b) y^2 c) $1+x+x^2$ d) 100

7) Express the following in exponential form :

a) t x t b) 2 x 2 x a x a

8) Give two examples of shapes of cuboid.

9) Express the number in standard form :

a) Speed of light in vaccume is 300,000,000 m

10)List five rational numbers between : a) -1 and 0

SECTION - B

(2X 5 = 10 m)

Q.3) Find $\frac{5}{4} + (\frac{-11}{4})$

Q.4) Construct an equilateral triangle of side 5.5 cm.

OR

Q.5) Find area of circle if radius = 14 mm. (take $\Pi = \frac{22}{7}$)

Q.6) Find the value of expression $2x - 7$ when $x = -1$

Q.7) Find : 15 % of 250

Q.8) Identify terms and factors in the expression given below :

a) $-4x + 5$ b) 1.2 ab - 2.4 b + 3.6 a

SECTION - C

(3 x 6 = 18m)

Solve the following :

Q.9) Construct Δ ABC ,given m$\angle$A =60 °,m$\angle$B = 30 °and AB =5.8cm.

Q.10) Add : a) a + b - 3 , b - a + 3 , a - b + 3

b) 3mn , -5mn , 8mn , -4mn

Q.11) Using laws of exponents , simplify and write the answer in exponential form : a) $6^{15} \div 6^{10}$ b) $3^2 \times 3^4 \times 3^8$

Q.12) Draw the number line and represent the following rational numbers on it. a) $\frac{3}{4}$ b)$-\frac{5}{8}$

Q.13) Tell what is the profit or loss in the following transaction. Also find profit percent or loss percent in this case :

a) A cupboard bought for Rs. 2500 and sold at Rs. 3,000.

Q.14) The perimeter of a rectangle is 130 cm. If the breadth of the rectangle is 30cm ,find its length. Also find the area of rectangle.

OR

Q.15) Express each of the following as product of their prime Factors : a) 343 b) 540

SECTION – D

(4X3= 12m)

Q.16) Construct a right angled triangle whose hypotenuse is 6 cm long and one of the legs is 4cm long.

OR

Q.17) A 3 m wide path runs outside and around a rectangular park of length 125 m and breadth 65 m. Find the area of the path.

Q.18) Simplify the expressions and find the value if x = 2

a) x + 7 + 4 (x – 5) b) 6x + 5(x -2)

Q.19) Find the product : a) $\frac{3}{7}$ x ($\frac{-2}{5}$)

Subtract : b) a (b - 5) from b (5 - a)

OR

Q.20) Simplify and express in exponential form : a) $\frac{2^3 \times 3^4 \times 4}{3 \times 32}$

b) $(3^0 + 2^0) \times 5^0$