



JKG INTERNATIONAL SCHOOL, VIJAY NAGAR
HALF YEARLY EXAMINATION-(2019-2020)



CLASS VII- MATHS –BLUE PRINT & SAMPLE PAPER

Time: 3 Hrs

M.M:-80

Instructions :

- All questions are compulsory.
- Read carefully and do neatly
- The question paper consists of 40 questions divided into 4 sections
- **Section A** contains 20 questions of 1 mark each , **Section B** contains 6 questions of 2 marks each , **section C** contains 8 questions of 3 marks each , **Section D** contains 6 questions of 4 marks each
- **5 marks reasoning included.**

SECTION – A

(20 X 1)

- Q.1 The product of three negatives is ?
(a) Positive (b) Negative (c) 0 (d) none of these
- Q.2 Which of the following is not the additive inverse of a?
(a) $-(-a)$ (b) $a \times (-1)$ (c) $-a$ (d) $a \div (-1)$
- Q.3 Which of the following is the multiplicative identity of a?
(a) 0 (b) a (c) 1 (d) -1
- Q.4 The product of 5 and $2\frac{5}{6}$ is
(a) $\frac{15}{6}$ (b) $14\frac{1}{6}$ (c) $12\frac{5}{6}$ (d) $1\frac{5}{6}$
- Q.5 The reciprocal of $2\frac{5}{6}$ is --
(a) $\frac{5}{3}$ (b) $\frac{7}{6}$ (c) $\frac{15}{3}$ (d) $\frac{6}{17}$
- Q.6 $\frac{2}{7}$ of $\frac{8}{9}$ is equal to which of following
(a) $\frac{2}{9}$ (b) $\frac{18}{49}$ (c) 0 (d) none of these
- Q.7 The decimal expansion of ₹5 and 7 Paise is
(a) ₹ 5.7 (B) ₹ 5.70 (C) ₹ 5.07 (D) ₹ 57
- Q.8 The product of 0.04×0.8 is
(a) 0.32 (b) 0.032 (c) 3.2 (d) 0.0032
- Q.9 The reciprocal of 0.5 is
(a) 1 (b) 0.5 (c) 2 (d) 5
- Q.10 Which of the following rational number is negative?

(a) $\frac{-7}{-11}$ (b) $-\left(\frac{-3}{4}\right)$ (c) $\frac{7}{3}$ (d) $\frac{5}{-4}$

Q.11 The simplest form of $\frac{18}{-30}$ is

(a) $\frac{18}{30}$ (b) $\frac{3}{5}$ (c) $\frac{3}{-5}$ (d) None of these

Q.12 A rational number equivalent to $\frac{-12}{28}$

(a) $\frac{12}{28}$ (b) $\frac{3}{7}$ (c) $\frac{-3}{7}$ (d) $\frac{-3}{-7}$

Q.13 $[(-2)^3]^2$ is equal to

(a) -2^6 (b) 2^5 (c) $(-2)^5$ (d) 64

Q.14 Square of $\left(\frac{-2}{5}\right)$ is equal to

(a) $\frac{2}{5}$ (b) $\frac{3}{2}$ (c) $\frac{4}{25}$ (d) $-\frac{4}{25}$

Q.15 Which power of nine is equal to 3^6 ?

(a) 0 (b) 1 (c) 2 (d) 3

Q.16 The number of terms in $x^3 + 7x^2y^2 - 3xy - 5$ is

(a) 3 (b) 4 (c) 2 (d) 5

Q.17 The solution of equation $bx - a = 0$ is?

(a) $\frac{b}{a}$ (b) $-\frac{b}{a}$ (c) $\frac{a}{b}$ (d) $-\frac{a}{b}$

Q.18 Which of the following number satisfies the equation $-5 + y = -12$

(a) 7 (b) -7 (c) 0 (d) -1

Q.19 0.85 is equal to

(a) 0.35% (b) 8.5% (c) 85% (d) 850%

Q.20 20% of 400 is

(a) 100 (b) 20 (c) 80 (d) 120

SECTION-B

(6 X 2)

Q.21 Find the value using suitable property $159 \times 87 + 159 \times 13$

Q.22 Solve $\frac{3}{9} + \frac{-7}{36} + \frac{-5}{36}$

Q.23 Find the product of 0.23×1.05

Q.24 Write the number 8675 in expanded form.

Q.25 Subtract $x^3 - 2x^2y + 5xy^2 - 2y^3$ from $3x^3 - 2x^2y + 5x^2y - y^3$

Q.26 Twice a number added to half of it self equal to 25 find the number

SECTION-C

(8 X 3)

- Q.27 In an operation * is defined as $a*b = a+b \times a-b$ Then find $(-5) * (-7)$
- Q.28 It takes $2\frac{1}{3}m$ of cloths to make a shirt, how much clothes is required to make, 15 such shirts.
- Q.29 A car cover a distance of 123.2Km in 5.6 litres patrol. How much distance will it cover in 1 litre?
- Q.30 Arrange in ascending order $\frac{2}{9}, \frac{-1}{6}, \frac{-7}{15}, \frac{5}{-12}$
- Q.31 Find the value of $\left(\frac{-1}{3}\right)^3 \times \left(\frac{2}{-5}\right)^3 \times \left(\frac{-10}{3}\right)^3$
- Q.32 if $x = 2, y = 3$ find the value of $x^2 + xxy + 3y$
- Q.33 Two complementary angles differ by 10 find the angles
- Q.34 Reshma is 30 years younger than her father the sum of their age 60 years . Find the age of Reshma and her father.

SECTION – D

(6 X 4)

- Q.35 In how many years will Rs. 640 amount to Rs. 800 at 5% per annum?
- Q.36 A man travelled his two – fifth journey by train , one – third by bus , one –fourth by car and rest 3 km. By foot,. Find the length of his total journey.
- Q.37 $A = x^2 - 7xy + 2y^2, B = 2x^2 - 5xy + 2y^2$ and $C = x^2 - 3xy + 2y^2$ find $A + B - C$. Or simplify the following
 $x - [x^2 - \{2x^2 - 5x - (7x^2 - 3x)\}]$
- Q.38 find four rational no. between $\frac{3}{5}$ and $\frac{4}{5}$
- Q.39 simplify $\left(1 \div \frac{1}{9}\right) \left(3 \div 3\frac{1}{5}\right) \left(1 \div 2\frac{2}{3}\right)$
- Q.40 simplify $9 - [28 - \{16 + (5 - 3 - 1)\}]$