

Divisional Public School & College Sahiwal(Chichawatni Campus)

1st Revision Test Series 2024-25

Time:10 min.

9th -P/R

Maths

Objective

Paper#2

Marks:10

Name: _____

Section: _____

Roll No: _____

Note: Cutting, Overwriting, use of ink remover & lead pencil is not allowed.

- Q.1: Choose the correct option. /10**
- Real part of $2ab(i+i^2)$ is
 (A) $2ab$ (B) $-2ab$ (C) $2abi$ (D) $-2abi$
 - If $x, y, z \in R, z < 0$, then $x < y \Rightarrow$
 (A) $xz < yz$ (B) $xz > yz$ (C) $xz = yz$ (D) None
 - What is the additive inverse of real number x:
 (A) 0 (B) 1 (C) -x (D) $\frac{1}{x}$
 - The value of i^9 is
 (A) 1 (B) -1 (C) $-i$ (D) i
 - What kind of decimal fraction 0.1252525..... is?
 (A) Terminating decimal fraction (B) Recurring decimal fraction (C) Non-recurring non terminating fraction (D) None
 - Conjugate of $2+3i^3$
 (A) $-2-3i$ (B) $-2+3i$ (C) $2+3i$ (D) $2-3i$
 - Imaginary part of $-i(4i-7)$ is
 (A) 7 (B) -7 (C) -4 (D) 4
 - $-3 < 2 \Rightarrow 0 < 5$ which property is used here?
 (A) Multiplicative property (B) Additive property (C) Commutative property (D) Associative property
 - The property of real number used in $7 \times \frac{1}{7} = 1$
 (A) additive inverse (B) Additive identity (C) Multiplicative inverse (D) Additive property
 - $\{0, \pm 1, \pm 2, \pm 3, \dots\}$ is called
 (A) natural numbers (B) Whole numbers (C) Integers (D) Rational numbers

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Maths

Subjective

Paper#2

Marks:40

Q.2. Write down short answers.

(12×2=24)

(i) Simplify $\sqrt[4]{81y^{-12}x^{-8}}$	(ii) Give a rational number between $\frac{3}{4}$ and $\frac{5}{9}$
(iii) Simplify $\sqrt[3]{-\frac{8}{27}}$	(iv) Use laws of exponents $\left(\frac{x^{-2}y^{-1}z^{-4}}{x^4y^{-3}z^0}\right)^{-3}$
(v) Express recurring decimal $0.\overline{5}$ as rational number p/q where p,q are integers and $q \neq 0$	(vi) Write properties of radicals.
(vii) Represent the number on number line $1\frac{3}{4}$	(viii) Simplify $5^{23} \div (5^2)^3$
(ix) Write answer in the form $a+bi$ of $(\sqrt{5}-3i)^2$	(x) Calculate $z+\bar{z}$ if $z = \frac{1+i}{1-i}$
(xi) Define irrational numbers.	(xii) Define complex numbers.

Part-II (Long Questions)

(08×2=16)

Q.3:(a)	Simplify $\sqrt{\frac{(216)^{2/3} \times (25)^{1/2}}{(0.04)^{-3/2}}}$
(b)	Show that $\left(\frac{x^a}{x^b}\right)^{a+b} \times \left(\frac{x^b}{x^c}\right)^{b+c} \times \left(\frac{x^c}{x^a}\right)^{c+a} = 1$
Q.4:	Prove that any point on the bisector of an angle is equidistant from its arms.