

Section-B

Note: Attempt any NINE of the following questions:

- Q.2 Simplify: (i) $\frac{2^4 5^3}{10^2}$ (ii) $\frac{3^2 \cdot 4^3}{13}$
- Q.3 If $\log_3 0.4717 = \log_2 0.3010$, $\log_5 0.6990$ then find the value of $\log 30$

Q.4 If $ab = 5$ and $ab = 7$, find the value of $a^3 b^3$. Find the factors of the following

Q.5 (i) $x^2 - 1 + \frac{1x^2}{4x^2}$ (ii) $(2x + x)^2 - (2x - x)^2$

Q.6 Find the LCM of $x^2 + 11x + 28$ and $x^2 + x - 12$

Q.7 Simplify (i) $\sqrt{x} - 8 = 1$ (ii) $|5x - 12| = 7$

Q.8 Solve $9x^2 = 12x - 49$ by quadratic formula

Q.9 solve $\sqrt{x+2} + \sqrt{x+7} = \sqrt{6x+13}$

Q.10 Find the value of x and y when $x + yt = -5 + 5i$

Q.11 $x = 3 - 2\sqrt{2}$ find $x^2 + 1/x^2$

Q.12 If the polynomial $4x^3 - 7x^2 + 6x - 3k$ is exactly divisible by $(x + 2)$ find the value of k

Q.13 Find the square root by division method $x^2 + 2x^2 + 3x^2 + 2x + 1$

Q.14 Find the number of digits in 45.

SECTION - C

ATT9AP: ANT 1-015E1010F THE FOLLOWSIT3 QUESTIONS.

Q.15 If two angles of a triangle are congruent then opposite sides will also be congruent

Q.16 Define with Diagram

(i) Right Bisector of fine segment (ii) Equilateral Triangle (lii)

Congruent Triangles

Q17 If opposite sides of a quadrilateral are congruent and parallel then quadrilateral will be parallelogram.

Q.18 Draw $\triangle ABC$. if $m\angle A = 65^\circ$ $m\angle C = m\angle B = 5$ lcm

Q.19 Find am central point of a circle when the end points of diameter are $A(5)$ and $B(3-4)$.