SECTION-A

	Answer the following questions as required. (Que. 1 to 24) (1 mark each) [24]
۲	Choose the right option So that the statement become true (Que. No. 1 to 6)
1.	HCF $(a, b) = 16$ then LCM is not (A) 64 (B) 32 (C) 72 (D) 96
2.	The Geometric representation of the pair of linear equation $2x + 3y - 8 = 0$ and $4x + 6y - 16 = 0$ is
	(A) intersecting lines (B) Coincident lines
	(C) Parallel lines (D) None of above
2	If $\frac{5}{5} + \frac{4}{7} = 7$ and $\frac{4}{7} + \frac{5}{5} = 2$ at $\frac{1}{1} = 1$
э.	(A) 2 (B) 5 (C) 7 (D) 9
4.	For and AP, d = 5, a = $\frac{-35}{3}$, a ₉ = $\frac{85}{3}$ then S ₉ =
	(A) –35 (B) 75 (C) 85 (D) 35
5.	Which of the following equations is not a quadratic equation ?
	(A) $4x^2 - 7x + 3 = 0$ (B) $3x^2 - 4x + 1 = 0$
	(C) $2x - 7 = 0$ (D) $4x^2 - 3 = 0$
6.	If A(0, 0), B(2, 0), C(2, 2) and D(0, 2), then \Box ABCD is
	(A) rectangle
	(B) Trapezoidal quadrilateral
	(C) Square
	(D) equilateral quadrilateral
•	Choose the correct answers from the answer given in brackets and write the following statement as true : (Que. No. 7 to 12)
7.	All triangle are converent. (equailteral, rectangle, right triangle)
8.	If tangents PA and PB from a point P to a circle with centre O case inclined to each other of angle of 80°, then \angle POA is (50°, 80°, 100°)
9.	In \odot (0, 8) the minor \widehat{PRQ} is m $\angle POQ = 45^\circ$, then the minor \widehat{PRQ} length is
10	Let Γ the second sec
10.	In $2t_i = 100, a = 25, x = 25$, then $2t_i d_i = $ (0, 25, 50)
11.	The distance of the point (20, 21) from the origin is (20, 21, 29)
12.	The formula for finding the volume of a 5 Rupee
	coin is $(\pi r^2, \pi r^2 h, \frac{1}{3} \pi r^2 h)$
•	State whether the following statements are true or false : (Que. No. 13 to 16)
13.	$\sqrt{18} \times \sqrt{8}$ is an irrational numbers.
14	Exponent of linear polynomial is O

- 15. $x + \frac{1}{x}$ is not a quadratic polynomial.
- **16.** The value of sin θ increases as the value of θ increases from 0° to 90°.
- Answer the following questions in one sentence, word or numbers : (Que. No. 17 to 20)
- State the formula for finding the TSA of 10 rupee coin.
- **18.** A data of $\frac{x}{5}$, x, $\frac{x}{4}$, $\frac{x}{2}$ and $\frac{x}{3}$ also x > 0. If median of information is 8 then find x.
- **19.** What is the probability of the event who is born must die?
- **20.** Which Arab mathematician studied different types of plynomial equations ?
- Match following : (Que. No. 21 to 24)

(A) (B) 21. Zeroes of P(x) = 2x + 6 (a) 3 22. Zeroes of P(x) = 2x - 6 (b) 0 (c) -3 (A) (B) 23. $\sec^2 A - \tan^2 A$ (a) -1 24. $\cot^2 A - \csc^2 A$ (b) 1 (c) 0