

- (14) $\tan 60^\circ = :$ (a) $\frac{1}{\sqrt{3}}$ (b) $-\sqrt{3}$ (c) 1 (d) None of these
- (15) The simplest form of $\frac{a^5b - ab^5}{a^3b + ab^3}$ is:
- (a) $a^2 + b^2$ (b) $a^2 - b^2$ (c) $a + b$ (d) $a - b$
- (16) The Transpose matrix of $\begin{bmatrix} 5 & 3 \\ 1 & 6 \end{bmatrix}$ is:
- (a) $\begin{bmatrix} 5 & 1 \\ 3 & 6 \end{bmatrix}$ (b) $\begin{bmatrix} 6 & 3 \\ 1 & 5 \end{bmatrix}$ (c) $\begin{bmatrix} 1 & 6 \\ 5 & 3 \end{bmatrix}$ (d) $\begin{bmatrix} 3 & 5 \\ 1 & 6 \end{bmatrix}$
- (17) $\cos 20^\circ = :$
- (a) $\operatorname{Cosec} 70^\circ$ (b) $\tan 70^\circ$ (c) $\sin 70^\circ$ (d) $\cot 70^\circ$
- (18) A circle which touches all the three sides of a triangle is called:
- (a) Inscribed circle (b) Escribed circle
(c) Circum circle (d) None of these
- (19) The Set $A = \{1, 3, 5, 7, \dots\}$ is closed with respect to:
- (a) Multiplication (b) Addition
(c) Subtraction (d) Division
- (20) Solution Set of $\sqrt{2y-3} = \sqrt{3y+4}$ is:
- (a) 1 (b) 7 (c) -7 (d) 5

MATHEMATICS

2014

Time: 2 ½ Hours

Max. Marks: 80

SECTION "B" (SHORT-ANSWER QUESTIONS)

Note: Answer any 10 questions from this section. (50)

- (2) If $U = \{1, 2, 3, 4, 5, 6, 7\}$, $A = \{1, 3, 5, 7\}$ and $B = \{3, 4, 5, 6\}$; Prove that $A' \cup B' = (A \cap B)'$
- (3) Simplify: $\left(\frac{(125)^2 \times 8}{(64)^2} \right)^{\frac{1}{3}}$
- (4) If $a + b = 7$ and $ab = 11$, find the value of $(a - b)$.
- (5) Find the value of $\frac{85.7 \times 2.47}{8.89}$ with the help of logarithmic table
- (6) Factors. $r^2(s - t) + s^2(t - r) + t^2(r - s)$
- (7) Solve the following equations with the help of matrix:
 $5x - 2y = 1$, $2x - y = 0$
- (8) If one pair of opposite sides of a quadrilateral are congruent and parallel, it is a parallelogram. Prove it.
- (9) Solve the equation $2b^2 - 7b + 5 = 0$ using quadratic formula.

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