

- (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.

# Mathematics Of Matric In Memorundm Of 2014

**Sabine Zange**



**Mathematics Of Matric In Memorundm Of 2014:**

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