

Dr. Babasaheb Ambedkar Technological University Vidyavihar, Lonere, Dist. Raigad

END SEMESTER SUPPLEMENTARY THEORY EXAMINATION SUMMER-2022

END SEIVESTER SOFFEEIVENTART THEORY EXAMINATION SOMMER-2022		
Center Code: 5448	Course: F.Y.B.Pharm	Semester: I
Date: 13/09/2022	Time: 2:15 PM to 4:15 PM	Marks: 35
Subject: Remedial Mathematics		Subject Code: BP106RMT

Q.1 Attempt any one of the following.

(1) Solve the following System of equations:
$$x + y + z = 6$$

 $2x + 3y - z = 5$
 $6x - 2y - 3z = -7$

Using crammers rule.

(2) Find equation of line passing through the point (-2, 0) and perpendicular to the line to the line 4x-3y=2

Q.2 Attempt any FIVE of the following.

- (1) If the line passes through the point (2, 1) and having slope $\frac{3}{2}$ find equation of line.
- (2) If $y = cosx. logx. find \frac{dy}{dx}$
- (3) Resolve into Partial fraction $\frac{3X+1}{(X-2)(X+1)}$
- (4) Find L{tsint}
- (5) Find Partial fraction of $\frac{x-2}{(x-3)(x-4)(x-5)}$.
- (6) Find Sum and product of Eigen values of $A = \begin{bmatrix} 1 & 2 & 2 \\ 2 & 1 & 2 \\ 2 & 2 & 1 \end{bmatrix}$
- (7) Prove that: $2\log\left(\frac{15}{18}\right) \log\left(\frac{25}{162}\right) + \log\left(\frac{4}{9}\right) = \log 2$.