BRAINWARE UNIVERSITY

Term End Examination 2022
Programme – B.Pharm-2019/B.Pharm-2020/B.Pharm-2021/B.Pharm-2022
Course Name – Remedial Mathematics
Course Code - BP106RMT
(Semester I)

Full Marks : 35   **Time : 1:30 Hours**

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.]

Group-B
(Short Answer Type Questions)   5 x 5=25

1. Formulate the general solution of $\left(1 + x^2\right)dx + \left(1 + y^2\right)dy = 0$. (5)

2. Describe conditions for parallelism and perpendicularity of two lines. (5)

OR

Describe the method of finding solution of system of linear of equations using matrix method. (5)

3. Discuss Cramer's rule with an example. (5)

OR

Describe the characteristic equation of a square matrix. (5)

4. Compute The general solution of $\frac{dy}{dx} = \frac{x^2}{y^2}$. (5)

OR

Compute the general solution of xdy - ydx=0 (5)

5. Justify that the distance between two straight lines is 0 when the straight lines coincide. (5)

OR

Write the concept of proper fraction briefly. (5)

Group-C
(Long Answer Type Questions)   10 x 1=10

6. Illustrate the method of finding a solution of a system of equations using Cramer's rule with an example. (10)

OR

Illustrate the conditions for a function to be a maximum or a minimum at a point with an example. (10)

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