Exam. Code : 210001
Subject Code : 3778

M.Sc. Botany 1st Semester
THEORETICAL BIOLOGY
Paper : BOT-C516

Time Allowed—3 Hours]   [Maximum Marks—50

Note :— Attempt **FIVE** questions in all selecting at least **ONE** question from each section. All questions carry equal marks.

SECTION—A

1. What are periodic functions ? Illustrate with the help of sine function.   10

2. Write the equation of a power function and illustrate its application.   10

SECTION—B

3. What is definite integral ? Elucidate the steps of derivation with a suitable example.   10

4. Elucidate the concept and derivation of second derivative.   10

SECTION—C

5. What is differentiation ? Illustrate the product and quotient rules of differentiation.   10

6. What is normal distribution ? Elucidate the parameters that define a given normal distribution. 10

SECTION—D

7. What is meant by one way ANOVA ? Elucidate the concept and steps of calculation and significance of the test with an example. 10

8. What is meant by simple linear regression ? Taking hypothetical data elucidate the steps of derivation of the equation. 10

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