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Name.....

Reg. No.....

**FIRST SEMESTER M.Sc. DEGREE (REGULAR/SUPPLEMENTARY)
EXAMINATION, NOVEMBER 2024**

(CBCSS)

Zoology

ZOL 1C 02—BIOPHYSICS AND BIOSTATISTICS

(2019 Admission onwards)

Time : Three Hours

Maximum : 30 Weightage

I. Answer any *four* questions. Each question carries 2 weightage :

- 1 GM counter.
- 2 Gibb's Donnan equilibrium.
- 3 Positron Emission Tomography.
- 4 Effect of G force on human body.
- 5 Surface plasma resonance.
- 6 Kurtosis.
- 7 Shannon diversity index.

(4 × 2 = 8 weightage)

II. Answer any *four* questions. Each question carries 3 weightage :

- 8 Biological effects of ultrasonic sound.
- 9 Optical properties of colloids.
- 10 Differentiate SEM and TEM.
- 11 Role of nanotechnology in environmental management.
- 12 Physical organization of ear.
- 13 Poisson distribution.
- 14 Measures of central tendency.

(4 × 3 = 12 weightage)

Turn over

III. Answer any *two* questions. Each question carries 5 weightage :

- 15 Biological effects of ionizing radiations.
- 16 Briefly explain different types of chromatographic methods.
- 17 Define and explain correlation and correlation co-efficient with suitable example.
- 18 Define Regression. Discuss on regression line and regression equations. Add regression co-efficient.

(2 × 5 = 10 v)