

SUBJECT CODE NO: - FNP-6048
FACULTY OF SCIENCE AND TECHNOLOGY
MSC. S.Y.(SEM-III)(NEP Pattern-2023-2024) Zoology
Examination November / December 2025
Biophysics SAC166013T

Time: 1:30 Hours]

[Max. Marks: 45]

Please check whether you have got the right question paper.

- 1) Part A is compulsory.
- 2) Attempt any five questions from B part.
- 3) Draw well labelled diagram wherever necessary.

Part - A

Q1 Attempt the given MCQs

10

1. Diffusion of water through selectively permeable membrane is.....
 a) Osmosis b) Imbibition c) Diffusion d) Translocation
2. Functional Unit for contraction of striated muscle is -----
 a) Sarcomere b) Z- bands c) Chromomere d) Myofibrils
3. Oxygen liberated during photosynthesis comes from
 a) CO₂ b) Respiratory enzyme c) Water d) Carbohydrate
4. Property of light which is related with eye lens is ----
 a) Scattering b) Convergence c) diversion d) dispersion
5. In in-vitro effect shows which biological effect of the following
 a) Intra-uterine death of fetus
 b) Growth retardation of fetus
 c) Development of abnormalities
 d) All the above

Part - B

- | | |
|---|----|
| Q2 What is Osmosis? Give biological significance of Osmosis in plants & animal | 07 |
| Q3 Write chemical composition of cell-membrane. | 07 |
| Q4 Give an account of mechanism of muscle contraction (sliding filament Theory) | 07 |
| Q5 Explain structure of synapse. Give note on transmission of nerve impulse. | 07 |
| Q6 Give account of biological effect of radiation | 07 |
| Q7 Give significance of Blood Pressure & add a note on ECG. | 07 |