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SUBJECT CODE NO:- B-2032
FACULTY OF SCIENCE AND TECHNOLOGY
B.Sc. F.Y. (Sem-I) Examination Oct/Nov 2019
Zoology Paper-II
Cell Biology

[Time: 1:30 Hours]

[Max. Marks: 50]

Please check whether you have got the right question paper.

N.B

- 1) Attempt all questions.
- 2) Draw labeled diagram wherever necessary.

Q.1 Describe in detail the first meiotic cell division and add a note on its significance. 20

OR

Give an detail account on structure and function of Endoplasmic reticulum. 20

Q.2 Enumerate the use of phase contrast microscope in cell biology. 20

OR

Write short notes on (any four) 20

- a) Nucleus
- b) t-RNA
- c) Plasma membrane
- d) Eukaryotic cell
- e) Functions of mitochondria
- f) Fixation

Q.3 Select and write correct answer from the given alternatives in each sub-question. 10

- 1) The name E.R. was coined by -----
 - a) Porter and Kallman
 - b) Camilo Golgi
 - c) Watson & crick
 - d) Volkin
- 2) Ribosomes contain maximum quantity at:
 - a) Steroids
 - b) DNA
 - c) Lipids
 - d) RNA
- 3) Primary Acrosomes was formed by:
 - a) Ribosomes
 - b) Nucleus
 - c) E.R
 - d) Golgi complex
- 4) Replication of chromosomes occurs in:
 - a) Interphase
 - b) Metaphase
 - c) Telophase
 - d) Anaphase

- 5) Who describe the structure of DNA
 - a) Camlio Golgi
 - b) Robert Hook
 - c) Robert Brown
 - d) Watson & Crick

- 6) Cell was discovered by:
 - a) Leeuwenhoek
 - b) Robert Hook
 - c) Robert Swanson
 - d) Robert Brown

- 7) Chiasmata formation during meiosis occurs at ----- stage:
 - a) Diplotene
 - b) Pachytene
 - c) Zygotene
 - d) Diakineris

- 8) Mitochondria are related with:
 - a) Glucose formation
 - b) ADP formation
 - c) AMP formation
 - d) ATP formation

- 9) Fluid mosaic model is related to:
 - a) Plasma membrane
 - b) Golgi complex
 - c) Endoplasmic reticulum
 - d) Lysosome

- 10) The first operational light microscope was constructed by:
 - a) Robert Hook
 - b) Scheleiden
 - c) Janssen & Hans
 - d) Schwann