

This question paper contains 3 printed pages]

AO—109—2018

FACULTY OF SCIENCE

B.Sc (First Year) (First Semester) EXAMINATION

MARCH/APRIL, 2018

(CBCS Pattern)

ZOOLOGY

Paper II

(Cell Biology

(MCQ & Theory)

(Wednesday, 4-4-2018)

Time : 10.00 a.m. to 12.00 noon

Time—2 Hours

Maximum Marks—40

N.B. :— (i) Attempt All questions.

(ii) Use separate answer sheet (OMR) for Question No.1

(iii) One mark to each correctly answer of MCQ.

(iv) Negative marking system is applicable.

(v) Use black ball point pen to darken the circle of correct choice in OMR sheet.

(vi) Draw well labelled diagram wherever necessary.

MCQ

1. Choose the correct answer :

10

(i) Cell boundary of an animal cell is called :

(a) Plasma membrane

(b) Cell wall

(c) Nuclear membrane

(d) Both (a) and (b)

(ii) Fluid mosaic model of plasma membrane was proposed by :

(a) Danielli and Davson

(b) Robertson

(c) Garter and Grandes

(d) Singer and Nicolson

(iii) The function of smooth endoplasmic reticulum is :

(a) Protein synthesis

(b) Lipid synthesis

(c) Glucose synthesis

(d) RNA synthesis

P.T.O.

- (iv) The inner mitochondrial membrane gives out certain finger like projections is known as :
- (a) Ribosomes (b) Flagella
(c) Cristae (d) Pseudopodia
- (v) Ribosomes are the site of.....
- (a) Protein synthesis (b) Steroid synthesis
(c) Glucose synthesis (d) Lipid synthesis
- (vi) Lysosomes are also known as :
- (a) Power house of cell (b) Suicide bags of cell
(c) Food vacuole of cell (d) Contractile vacuole of cell
- (vii) Nuclear envelope is also known as :
- (a) Nuclear sap (b) Cytokinesis
(c) Kariokinesis (d) Nuclear membrane
- (viii) The correct sequence of cell cycle is :
- (a) G_1-S-G_2-M (b) $S-G_1-G_2-M$
(c) $M-G_1-G_2-S$ (d) G_1-G_2-S-M
- (ix) The division of cell into two identical daughter cells is known as :
- (a) Meiosis (b) Mitosis
(c) Amoebiosis (d) Autolysis
- (x) A tumour it is a abnormal growth of tissue, it has no co-ordination with the normal tissue is called :
- (a) Tuberculosis (b) Ulcer
(c) Hepatitis (d) Cancer

Theory

2. Explain in detail bimolecular and Lattice modes of plasma membrane and add a note on its functions. 10

Or

Write notes on :

- (a) Light Microscopy
(b) Non-Malignant Cancer

WT

(3)

AO—109—2018

3. Describe in detail structure and functions of endoplasmic reticulum.

Or

Write notes on :

10

(a) 70 S ribosomes

(b) Pachytene

4. Describe structure and functions of nucleus.

10

Or

Write notes on :

(a) Polytene chromosome

(b) Cell cycle.

AO—109—2018

3