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W—129—2018

FACULTY OF SCIENCE

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

OCTOBER/NOVEMBER, 2018

(CBCS/CGPA Pattern)

ZOOLOGY

Paper II

(Cell Biology)

(MCQ & Theory)

(Thursday, 25-10-2018)

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 correct answer of an 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

10

1. (i) Cytology is also known as :

(a) Molecular biology

(b) Morphology

(c) Cell biology

(d) Embryology

(ii) Trilamellar modes of plasma membrane was proposed by :

(a) Singer and Nicolson

(b) Robertson

(c) Danielli and Davson

(d) Hiller and Hoffman

P.T.O.

- (iii) The main function of Rough endoplasmic reticulum is :
- (a) Protein synthesis (b) Lipid synthesis
(c) RNA synthesis (d) DNA synthesis
- (iv) The particles present on the inner membrane of mitochondria are stalked are called :
- (a) F_4 particles (b) F_3 particles
(c) F_2 particles (d) F_1 particles
- (v) The subunits of 80 S ribosomes are :
- (a) 50 and 30 S (b) 60 and 40 S
(c) 40 and 50 S (d) 40 and 30 S
- (vi) The lysosomes contain type of enzymes.
- (a) Proteolytic (b) Lipolytic
(c) Hydrolytic (d) Synthetic
- (vii) Nuclear membrane is layered in nature.
- (a) Double (b) Single
(c) Triple (d) None of these
- (viii) Karyokinesis takes place in phase of cell cycle.
- (a) G_1 (b) G_2
(c) M (d) S
- (ix) Meiosis is a division.
- (a) Reductional (b) Additional
(c) Equational (d) Homotypic
- (x) A cancer which gives pain, it grows rapidly and spread is tumour.
- (a) Fibroma (b) Non-malignant
(c) Malignant (d) Benign

Theory

2. Explain in detail Trilamellar and Micellar model of plasma membrane and add a note on its functions. 10

Or

Write notes on :

- (a) Prokaryotic cell
(b) Malignant tumour.

3. Describe in detail structure and functions of Golgi Complex. 10

Or

Write notes on :

- (a) 80 S ribosome
(b) Metaphase of mitosis.

4. Explain in detail the structure of chromosome. 10

Or

Write notes on :

- (a) Nucleolus
(b) Types of Non-malignant Cancer.