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BF—113—2016

FACULTY OF SCIENCE

B.Sc. (First Semester) EXAMINATION

NOVEMBER/DECEMBER, 2016

(CBCS Pattern)

ZOOLOGY

Paper II

(Cell Biology)

(MCQ & Theory)

(Saturday, 10-15-2016)

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 answer sheet.

(vi) Draw well labelled diagrams wherever necessary for Question Nos. 2, 3 and 4.

(MCQ)

1. Choose the *correct* answer : 10

(i) In light microscope the source of illumination of object is :

(a) Visible light

(b) Electron rays

(c) X-rays

(d) UV-rays

(ii) The branch of biology which deals with the study of structure and functions of cell is called as :

(a) Biology

(b) Zoology

(c) Botany

(d) Cytology

P.T.O.

- (iii) The main function of smooth or agranular endoplasmic reticulum is :
- (a) Protein synthesis (b) Lipid synthesis
(c) Glucose synthesis (d) Amino acid synthesis
- (iv) The term 'Mitochondria' was coined by :
- (a) Altman (b) Benda
(c) Kollikar (d) Flemming
- (v) Tiny bags filled with digestive enzymes concerned with intracellular digestion is called as :
- (a) Golgi bodies (b) Lysosomes
(c) Mitochondria (d) Ribosomes
- (vi) The shape of chromosomes is determined by the position of :
- (a) Chromonema (b) Centromere
(c) Telomere (d) Pellicle
- (vii) Controlling centre of the cell is :
- (a) Nucleus (b) Ribosome
(c) Nucleolus (d) Mitochondria
- (viii) The spread of cancerous cells from one part of the body to another part of the body is called :
- (a) Metastasis (b) Hypostasis
(c) Homeostasis (d) Hyperstasis
- (ix) The somatic cells always contain number of chromosomes.
- (a) Haploid (b) Diploid
(c) Triploid (d) Tetraploid
- (x) Which of the following is the longest stage of meiotic division ?
- (a) Prophase (b) Metaphase
(c) Anaphase (d) Telophase

(Theory)

2. Describe in detail structure and functions of plasma membrane.

10

WT

(3)

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Or

Write notes on :

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

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

Or

Write notes on :

- (a) 70 S Ribosomes
- (b) Metaphase in mitosis.

4. Explain detailed structure of Nucleus. 10

Or

Write notes on :

- (a) Polytene chromosome
- (b) Anaphase-I of Meiosis.

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