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PSG COLLEGE OF ARTS & SCIENCE

(AUTONOMOUS)

BSc DEGREE EXAMINATION DECEMBER 2019

(First Semester)

Branch-ZOOLOGY

CELL BIOLOGY

Time: Three Hours

Maximum: 75 Marks

SECTION-A (10 Marks)

Answer ALL questions

ALL questions carry EQUAL marks (10x1 = 10)

1	The term cell was given by (i) Robert Hooke (iii) Schwann	(ii) Tatum (iv) De bary
2	The cell is not applied for (i) Algae (iii) Virus	(ii) Bacteria (iv) fungi
3	In a normal human being numbe (i) 23 (iii) 53	r of chromosom (ii) 46 (iv) 26
4	In Word Lysosoma, Lyso means (i) Cell (iii) Tissue	s splitting and soma means (ii) Body (iv) Organic
5	Golgi apparatus is found virtuall (i) Prokaryotic (iii) Protozoans	y in all cells which are in nature (ii) Eykaryotic (iv) Protoctists
6	Exchange of materials takes place between nucleus and cytoplasm with the help of(i) Nuclear pore(ii) Membrane(iii) Nucleus(iv) Chromatin	
7	A very important organelle whic (i) Mitochondria (iii) Nucleus	h is also called power house of cell is (ii) Golgicomplex (iv) Cell membrane
8	Name the process by which a m cells. (i) Transformation (iii) Invasiveness	alignant cell spread throughout normal (ii) Metastasis (iv) Progression
9	Which of the following is not the type of cancer?(i) Carcinomas(ii) Sarcomas(iii) Leukemia(iv) Caspases	
10	What is the origin of the cancer (i) Monoclonal (iii) Stem cells	cells? (ii) Polyclonal (iv) Mesodermal cells

SECTION - B (35 Marks) Answer ALL Questions ALL Questions Carry EQUAL Marks (5 x 7 = 35)

11 a Explain the principle of microscope.

OR

b Describe the structure of prokaryotic cell.

12 a Describe the chemical composition of plasma membrane.

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OR

b Write a short notes on functions of ribosomes.

13 a Draw and explain the endoplasmic recticulum.

OR

b Explain the ultra structure of mitochondria.

14 a Write a notes on chromosomes.

OR

- b Describe the chemical nature of DNA.
- 15 a Write a notes on cancer cells.

OR

b Explain about the apoptosis.

SECTION - C (30 Marks)

Answer any THREE Questions

ALL Questions Carry EQUAL Marks (3 x 10 = 30)

- 16 Write an essay on mitosis.
- 17 Give an account on various models of plasma membrane.
- 18 Write an essay on nucleus.
- 19 Give an account on various types of RNA.
- 20 Explain Tumour suppressor genes.

Z-Z-Z END