14BCV26/14BCU26

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

BSc DEGREE EXAMINATION DECEMBER 2018
(Sixth Semester)

Branch - **BIOCHEMISTRY**

CELL - A MOLECULAR APPROACH

Time : Three Hours Maximum : 75 Marks

SECTION-A (20 Marks)

Answer **ALL** questions
ALL questions carry **EQUAL** marks (10 x 2 = 20)

1 Define cytokinesis.
2 What is apoptosis?
3 Define - Sarcoma.
4 What is an antioncogene?
5 Mention the benefits of stem cell transplantation.
6 Define embryonic stem cell.
7 Give any two uses of PCR.
8 What is Proteomics?
9 What is a clone based map?
10 Mention the significance of analysis on human disease gene.

SECTION - B (25 Marks)

Answer **ALL** Questions
ALL Questions Carry **EQUAL** Marks (5 x 5 = 25)

11 a Explain the cell cycle in yeast.

OR

b Describe the mechanism of apoptosis.

12 a Describe the features of a cancer cell.

OR

b Discuss about the transformation of cells in culture.

13 a Explain about liver replacement.

OR

b Discuss oh adult stem cell therapy.

14 a Discuss on protein-protein interaction.

OR

b How would you diagnose genetic disease using RFLP?

15 a Why is the.human genome project so important?

OR

b Discuss on positional cloning.

SECTION - C (30 Marks)

Answer any **THREE** Questions
ALL Questions Carry **EQUAL** Marks (3 x 10 = 30)

16 Describe the structure and mechanism of action of G-protein coupled receptors.

17 Discuss on oncoproteins and their functions.

18 Explain the principles and applications of tissue engineering.

19 Give an account on DNA micro arrays.