PRESIDENCY UNIVERSITY, BENGALURU
SCHOOL OF ENGINEERING

Max Marks: 30 | Max Time: 55 Mins | Weightage: 15 % | **Set A**

TEST 3

II Semester 2016-2017 | **Course: BIO A 103 General Biology** | 19th April 2017

Instructions

a. Write legibly
b. All the questions are compulsory

Part A

(5 Q x 2 M = 10 Marks)

1. Define autosomes.
2. What is the site of glycolysis?
3. Name the enzyme involved in transcription.
4. Mention the start and any one stop codon.
5. Write the site for dark reaction of photosynthesis.

Part B

(2 Q x 5 M = 10 Marks)

6. Explain the summary of glycolysis.
7. Write any three differences between DNA and RNA and mention any two types of RNA.

Part C

(1 Q x 10 M= 10 Marks)

8. a) Name the process involved in making of RNA from DNA and RNA to protein. Mention the three steps of mRNA to protein synthesis. (5 Marks)

   b). Write the chemical reaction for photosynthesis and aerobic cellular respiration. (5 Marks).

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TEST 2

II Semester 2016-2017 | **Course: BIO A 103 General Biology** | 22 March 2017

Instructions

a. Write legibly
b. All the questions are compulsory

Part A

(5 Q x 2 M = 10 Marks)

1. Name the cell division through which gametes are produced.
2. Define allele.
3. List any two advantages of sexual reproduction.
4. Define crossing over and name the meiosis stage in which crossing over takes place.
5. Define mutagen and give example

Part B

(2 Q x 5 M = 10 Marks)

6. Differentiate between mitosis and meiosis.
7. Explain any two Mendel's laws of inheritance.

Part C

(1 Q x 10 M= 10 Marks)

8. a) Define cancer and list any three cancer treatment strategies. (5 Marks)
   b) Draw the well labelled diagram of cell cycle. (5 Marks)

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TEST 1

II Semester 2016-2017 | **Course: BIO A 103 General Biology** | 22 February 2017

Instructions:-

i) Write legibly

ii) All the questions are compulsory

Part A

(5 Q x 2 M = 10 Marks)

1. Define biology and give an example of a branch of bioengineering.
2. Who coined the term cell?
3. Name different types of Endoplasmic reticulum.
4. Which organelle is termed as the 'suicidal bag' of the cell?
5. State the function of ribosome.

Part B

(2 Q x 5 M = 10 Marks)

6. Name any one energy converter organelle and draw a well labelled diagram of the same.
7. Write any three functions of cytoskeleton structure and name any two of them.

Part C

(1 Q x 10 M= 10 Marks)

8. a) Differentiate between prokaryotes and eukaryotes. (5 Marks)

   b) Explain osmosis and diffusion. Give an example for each. (5 Marks)