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Exam Code: 206601

Subject Code: 4648

M.Sc. Bio-Informatics - Ist Sem.

(2119)

Paper: BI-511

Basic Concepts in Biology

Time allowed: 3 hrs.

Max. Marks: 75

Attempt any five questions selecting at least one from each section. Each question carries 15 marks

SECTION A

01. Di	fferentiate	between tl	ne foll	owing	and	make a	well	labeled	diagram also:	
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a. Eukaryotic and Prokaryotic cell

b. Cell wall and Plasma membrane

7.5x2

Q2. Write a note on the following:

a. Cell motility

b. Power house of cell

7.5x2

SECTION B

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O3 What	are proteine?	Evnlain struc	cture of proteins.
UD. WHAL	are proteins:	LADIAIII SUU	cture of proteins.

15

Q4. Write a note on the following:

a. Structural lipids.

b. Polysaccharides

c. Regulation of gluconeogenesis

5x3

SECTION C

Q5. Explain the following:

a. Inhibition of enzyme

b. Michaelis-menten equation

7.5x2

Q6 a. Write a note on nomenclature and classification of enzymes?

b. What is the effect of temperature and pH on enzyme activity?

7.5x2

SECTION D

Q7. Write a note on:

a. Cell mediated immunity

b. Maturation and differentiation of T cells

c. Innate and adaptive immunity.

5x3

Q8. Describe the following

a. Immunoprecipitation

b. Humoral Immunity

c. MHC Polymorphism.

5x3

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