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Third Semester B. E. (Biomedical Engineering) (CGS) Examination

HUMAN PHYSIOLOGY

Paper - 3 BM 02 (USC - 10099)

P. Pages: 3

Time: Three Hours] | Max. Marks: 80

Note: (1) Separate answer book must be used for each section in the subject Geology, Engineering material of civil branch and Separate answer book must be used for Section A and B in Pharmacy and Cosmetic Tech.

- (2) All questions carry equal marks.
- (3) Answer Three questions from Section A and Three questions from Section B.
- (4) Due credit will be given to neatness and adequate dimensions.
- Assume suitable data wherever necessary.
- (6) Illustrate your answer wherever necessary with the help of neat sketches.

SECTION A

- 1. (a) What is resting membrane potential and action potential? Explain in brief.
 - (b) Explain:
 - (i) RIA
 - (ii) Gibbs-Donnan Equilibrium.

OR

- 2. (a) Write a note on autoradiography.
 - (b) Define and explain Gel electrophoresis with its biological application.
- 3. (a) What is Genetical relation of albinism?
 - (b) Differentiate between DNA and RNA.

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OR

1 .	(a)	What is Gene mutation? How it is classified? Explain it.	7
	(b)	Write in brief about RNA with labelled diagram.	7
5.	(a)	Explain 'ABO' blood group system.	7
	(b)	Give the brief idea about bone marrow.	6
		OR	
5.		t is anaemia? Write down its morphological and etiological write its causes and symptoms.	classification 13
		SECTION B	
7.	(a)	Explain Heart sound and their types in detail.	(
,	(b)	Differentiate between skeletal, smooth and cardia muscles.	7
		OR	
8.	(a)	What is fatigue? Explain muscle fatigue in detail.	7
	(b)	What is sarcotubular system ?	6
9.	(a)	What are the different forms of Receptors ?	
		Difference between automatic and somatic nervous system.	-
	(0)	OR	,
10	(a)	Explain neuromuscular junction.	7
10			
	(b)	Write in brief about ANS.	7
11.	(a)	Explain the Anatomy of Heart with neat labelled diagram.	(
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(0)	write down the	e functions of kidney	ана ехріані	the counter	7			
OR								
(a)	What are the	blood composition as	nd its function	ons ?	7			

- 12.
 - (b) Explain in brief:
 - (i) Cardiac output
 - (ii) Blood vessels.

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