B.Sc. 1st Semester (Honours) Examination, 2022-23

PHYSIOLOGY

Course ID: 12511 Course Code: SH/PHY/101/C-1

Course Title: Cellular Basis of Physiology (New)

Time: 1 Hour 15 Minutes Full Marks: 25

The figures in the right hand margin indicate full marks.

Candidates are required to give their answers in their own words as far as practicable.

Unit-I

1. Answer any five questions:

 $1\times5=5$

- (a) What do you mean by check-point of cell cycle?
- (b) What do you mean by F_1 particle?
- (c) Define apoptosis.
- (d) Define intercalated disc.

(e) Write any one function of synovial fluid.

(f) What do you mean by cyto-ribosome?

(g) What is 'Haversian system'?

| (h) What is peroxisome? | |
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| Unit–II | |
| Answer any two questions: | ×2=10 |
| (a) Briefly discuss about the composition and func CSF. | etion of 3+2 |
| (b) Define homeostasis. Briefly mention the feet mechanism of homeostasis in general with example. | |
| (c) What is unit membrane? Discuss the signification fluid-mosaic model of cell membrane. | ance of 1+4 |
| (d) Classify tissue. Mention in brief about adipose | tissue. |

Unit-III

3. Answer **any one** question :

 $10 \times 1 = 10$

- (a) Describe the electron microscopic structure of nucleus with suitable diagram. Mention in brief the functions of endoplasmic reticulum. (5+2)+3
- (b) What is carrier mediated transport? Describe the mechanism of active transport with example. 2+8

22-23/12511 (Turn Over)

2.

2+3