TB221760V

Reg. No :.....

Name :.....

B. Sc. DEGREE (C.B.C.S.) EXAMINATION, NOVEMBER 2022

(2022 Admissions (regular) 2021 Admissions (Improvement / Supplementary) 2020 Admission Supplementary)

SEMESTER I - COMPLEMENTARY COURSE 2 (NUTRITION AND DIETETICS)

ND1C02B20 - HUMAN ANATOMY AND PHYSIOLOGY I

Time : 3 Hours **Maximum Marks : 80**

Part A

I. Answer any Ten questions. Each question carries 2 marks **(10x2=20)**

1. Discuss on cytoskeleton.
2. Enumerate the characteristics of cell.
3. Enumerate the functions of ribosomes.
4. Write on the role of digestive and circulatory systems in homeostatic control mechanism.
5. Describe homeostasis.
6. Discuss on the Positive feedback mechanism during parturition.
7. Explain the role of intestinal juices.
8. Describe accessory organs.
9. What is enterohepatic circulation?
10. Write a note on countercurrent mechanism.
11. Discuss on renal corpuscle.
12. Write a note on renal sinus.

Part B

II. Answer any Six questions. Each question carries 5 marks **(6x5=30)**

13. Explain different types of cell signalling with the help of a diagram.
14. Explain the structure and function of mitochondria.
15. Discuss on the Components of homeostatic system.
16. Explain the factors regulated homeostatically.
17. Enumerate on the mechanism of digestion and absorption of carbohydrates.
18. Detail on the role of gall bladder.
19. Explain the walls of stomach.
20. Explain counter-current exchanger system.
21. Explain the structure of kidney with an aid of a figure.

Part C

III. Answer any Two questions. Each question carries 15 marks **(2x15=30)**

22. Discuss body fluids on following heads: (a)TBW (b) ECF (c) ICF.
23. Write on the components of homeostasis and regulation of acid- base balance.
24. Summarize the role of the following accessory glands in digestion and absorption . a) Salivary Gland b) Liver c) Pancreas
25. Explain the countercurrent mechanism in kidneys with a suitable diagram.