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B.M.S COLLEGE FOR WOMEN AUTONOMOUS

BENGALURU – 560004

SEMESTER END EXAMINATION – SEPTEMBER 2023

B.Sc. Clinical Nutrition and Dietetics- 2nd Semester

HUMAN PHYSIOLOGY

(NEP Scheme 2021-22 onwards)

Course Code: CND2DSC04

Duration: 2 ½ Hours

QP Code: 2043

Max. Marks: 60

Instruction: All parts are compulsory.

PART - A

I. Answer any FOUR of the following.

(4X2=8)

1. List two applications of exocytosis.
2. Write the significance of lysosomes in cellular digestion.
3. Define the term erythropoiesis.
4. What is the composition of cerebrospinal fluid?
5. What is muscular dystrophy?
6. Name any two hypersensitivity reactions.

PART - B

II. Answer any FOUR of the following.

(4X5=20)

1. Discuss the role of sodium potassium pump in transportation across the cell.
2. Write any two functions of i. Endoplasmic reticulum ii. Golgi apparatus
3. Explain the role of lungs in exchange of gases.
4. Briefly explain the transmission of nerve impulses across a synapse.
5. Mention the functions of estrogen and testosterone hormones.
6. Discuss the physiological implications of menopause.

PART - C

III. Answer any FOUR of the following.

(4X8=32)

1. i. Describe the function of the plasma membrane in a cell.
ii. Explain the role of muscle tissues in movement and contraction.
2. i. Give any two differences between active and passive transport.
ii. Write the effect of osmosis on cell functions.
3. i. Outline the factors that influence glomerular filtration.
ii. Explain the concept of histocompatibility with respect to blood grouping.
4. i. Write the significance of i. ECG ii. Diuretics

ii. Explain the role of digestive enzymes in breaking down different macronutrients.
5. Explain the following:
a) Innate immunity b) Adjuvants
6. Explain the feedback mechanisms that regulate the secretion of pituitary hormones.
