

**B.Sc. MEDICAL TECHNOLOGY (RADIOTHERAPY) (BRT)
SEMESTER -II EXAMINATION, JUNE-2026**

(BRT202) HUMAN PHYSIOLOGY -II

[Time allotted: Three Hours]

[Max Marks: 100]

Note: Read all the instructions carefully

Answer all questions in serial order, Draw suitable diagrams wherever necessary

Q. 1. Objective type questions: (Attempt All)**(10 x 02 = 20)**

(Very short/ Short answer/ MCQ/ One liners/ Fill in the blanks/ True/False)

- a. Define stretch reflex. (CO1)
- b. Juxtamedullary Nephron. (CO1)
- c. Organ of corti is the sense organ of hearing. **(True or False)** (CO2)
- d. Which lens is used to correct astigmatism? (CO2)
- e. Give the normal range of body temperature. (CO1)
- f. Define menarche. (CO1)
- g. hormone is responsible for parturition. (CO1)
- h. Sperm and ova are diploid cell. **(True or False)** (CO2)
- i. Nociceptors carry temperature sensation. **(True or False)** (CO2)
- j. Choose the best. Tachycardia is a feature of **a)** hypothyroidism or **b)** Hyperthyroidism. (CO2)

Q. 2. Short notes/ Short answer type questions (Attempt any Five)**(05 x 04 = 20)**

- a. Spermatogenesis. (CO1)
- b. Tests for color vision. (CO1)
- c. Functions of kidney. (CO1)
- d. Glomerular Filtration rate and its normal values. (CO1)
- e. Chemical Synapse. (CO1)
- f. Classification of sensory receptors. (CO1)
- g. What are the natural methods of contraception? (CO2)

Q. 3. Structured questions (Attempt any Three)**(03 x 10 = 30)**

- a. Differentiate between anterolateral and posterior column divisions of sensory tracts. (CO2)
- b. Enumerate the functional division of cerebellum and discuss the functions of each one of them with examples. (CO1)
- c. Discuss the physiological changes in females during pregnancy (CO2)
- d. Discuss the functions of middle ear and inner ear. (CO1)

Q. 4. Long Answer/ Essay type questions (Attempt any Two)**(02 x 15 = 30)**

- a. Describe the hormonal regulation of menstrual cycle. (CO1)
- b. Draw and describe the visual pathway and effect of lesions in it on the visual field. (CO1)
- c. Draw diagram of juxta glomerular apparatus and describe the components of JGA with its functions. (CO1)