



K25U 0856

Reg. No. :

Name :

**IV Semester B.Sc. Degree (C.B.C.S.S. – O.B.E. – Regular/
Supplementary/Improvement) Examination, April 2025
(2019 to 2023 Admissions)
COMPLEMENTARY ELECTIVE COURSE IN PHYSIOLOGY
4C 04 PLY : Human Physiology – II**

Time : 3 Hours

Max. Marks : 32

I. Essay questions. Answer any two. (2×6=12)

- 1) Describe the structure and function of any two major endocrine glands in the human body.
- 2) Differentiate between isotonic and isometric muscle contractions with suitable examples.
- 3) Explain the process of oogenesis. Illustrate the structure of ovum.
- 4) Explain the causative factors, symptoms, treatment and preventive measures of any two sexually transmitted diseases.

II. Short essay questions. Answer any two. (2×3=6)

- 5) Describe the structure of human sperm with a labeled diagram.
- 6) Bring out the significance of first aid. Mention the first measures to taken in case of burns.
- 7) Illustrate the sarcotubular system and explain its function.

III. Short answer questions. Answer any six. (6×2=12)

- 8) State all or none law.
- 9) Differentiate between fertilization and implantation.
- 10) Explain the role of glucagon in glucose metabolism.
- 11) Mention the first aid steps for a drowning victim.

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- 12) Enlist any four physiological changes of ageing.
- 13) Suggest methods for de-addiction of an alcoholic.
- 14) Explain the significance of the corpus luteum in pregnancy.
- 15) Mention any four community health strategies to control the spread of waterborne diseases.

IV. Multiple choice questions. Answer **all**.

(4×0.5=2)

- 16) What are the two examples of NON communicable diseases ?
 - a) Influenza, Cholera
 - b) Chicken pox, Strep throat
 - c) Cancer, High blood pressure
 - d) Asthma, Measles
- 17) Which of the following is a symptom of a snakebite ?
 - a) Increased energy
 - b) Bluish discoloration around the bite
 - c) Decreased heart rate
 - d) Excessive sweating
- 18) The site of fertilization in humans is usually the :
 - a) Uterus
 - b) Fallopian tube
 - c) Ovary
 - d) Cervix
- 19) The action potential in a muscle fiber is mainly due to the movement of which ion ?
 - a) Calcium
 - b) Potassium
 - c) Sodium
 - d) Chloride