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RNLKWC(A)/BMLT/XXV/SEM-V/2023

2023

B.Sc.

B.Sc. Fifth Semester End Examination - 2023

BMLT

PAPER - XXV

Clinical Endocrinology, Toxicology & Andrology

Full Marks : 40

Time : 2 hours

*The figures in the right-hand margin indicate marks.*

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

*Illustrate the answers wherever necessary.*

**Group - A**

1. Answer any five questions of five following : 2×5=10

- (a) Define ART. 2
- (b) Write down the important markers of obesity. 2
- (c) What is Gherlin?
- (d) What is multinodular goiter?
- (e) How can lead poisoning effect the health?
- (f) Write two functions of androgen.
- (g) What is the role of cholecystokinin?
- (h) What do you mean by prepubescence?

*(Turn Over)*

( 2 )

**Group - B**

2. Answer any four questions of the following. 5×4=20

- (a) Explain the signaling mechanism of Leptin. 5
- (b) What are interstitial cells? Write the role of somatostatin. 2+3
- (c) (i) Discuss about the action of FSH on the metabolic activity of Sertoli cells.
- (ii) Write two functions of seminiferous tubules. 4+1
- (d) (i) Explain about the biosynthesis process of insulin.
- (ii) What is LADA. 4+1
- (e) Write short notes on—
- (i) Hashimoto's thyroiditis.
- (ii) Type-1 Diabetes Mellitus. 2½+2½
- (f) (i) What is hypothalamic pituitary unit? 2
- (ii) Write the differences between acute toxicity and chronic toxicity. 8

**Group - C**

3. Answer any one question of the following : 10×1=10

- (a) (i) Why fructose and aerobic condition are essential for male reproductive system activity? 2

( 3 )

- (ii) Write the causes of male and female infertility. 4
- (iii) Explain the hormonal control mechanism of testosterone secretion. 4
- (b) (i) Explain the feed back regulation of 'Corticotropin releasing hormone' with suitable diagram. 8
- (ii) Write the principle of ELISA. 2