MODEL QUESTION PAPER

PHYSIOLOGY & BIOCHEMISTRY - Paper II

Multiple Choice Question

Time : 3 hrs (1x 10=10)

1. Cushing's syndrome is due to hypersecretion of

- A. Glucocorticoids
- B. Mineralocorticoids
- C. Both
- D. None

2. Normal blood urea level is

- A. 10 15mg / dl
- B. 9 11 mg / dl
- C. 25 40mg / dl
- D. 100 120 mg / dl
- 3. All are components of Saliva except
 - A. Blood group antigens
 - B. Lysozymes
 - C. Platelets
 - D. Immunoglobins
- 4. Which hormone initiates Oogenesis?
 - A. FSH
 - B. Testosterone
 - C. LH
 - D. DHEA-S
- 5. The renal system does not play a direct role in regulating which of the following?
 - A. Blood solute concentrations
 - B. Blood temperature
 - C. Blood pressure
 - D. Blood pH
- 6. The characteristic feature of the pyramidal tract is
 - A. 20 % of fibres cross
 - B. 60% of fibres originate from primary motor cortex
 - C. 20% of the fibres show segmental intercrossing
 - D. 80% of the fibres do not cross
- 7. In comparison to the cones, the rods are more
 - A. concentrated in the fovea region
 - B. sensitive to dim light

- C. important for colour vision
- D. sensitive to detail
- 8. All of the following are reducing sugar except
 - A. Sucrose
 - B. fructose
 - C. Glucose
 - D. Maltose
- 9. All of the following except one are Aromatic Amino acid
 - A.Tyrosine
 - B. Phenyl alanine
 - C. Tryptophan
 - D. Homocysteine

10. Which of the following type of cells the cell junction is abundant?

- A. Cardiac cells
- B. Muscle cells
- C. Hepatic cells
- D. Epithelial cells

Short Essay

- 1. Explain the regulation of blood calcium level.
- 2. Cushing disease
- 3. Enumerate the functions of cerebellum
- 4. Function of Thalamus
- 5. Function of saliva & regulation of Salivary secretion
- 6. Explain spermatogenesis
- 7. Draw a diagram of visual pathway & explain it.
- 8. Glycolysis

Long answer Questions (LAQ)

- 1. A 45-year-old casual labourer comes to the OPD with complaints of excessive thirst, urination, hunger and weakness, of two weeks' duration with your knowledge of physiology, answer the following.
 - What is the most likely condition.
 - What tests would you suggest to confirm.
 - How can you explain his symptoms.

 $(5 \times 10 = 50)$

$(10 \times 5 = 50)$

- What are the dietary and lifestyle modifications you would suggest for this man. (1+2+5+2)
- **2.** Enumerate the descending tracts of spinal cord. Describe in detail the pyramidal tracts.
- 3. Describe in detail about gastro-intestinal movements
- 4. What are the female sex hormones? Explain their actions. (2+8)
- 5. Give an account of accommodation. Add a note presbyopia (4+6)