

II - S - B. Pharma - HAP - II -
(Theory) - BP - 201 T

2021

Full Marks - 75

Time - As in the Programme

The figures in the right hand margin indicate marks.

Answer ALL questions.

Section - A

- 1.(a) What is the major artery that feeds the heart blood and oxygen ? [10×1=10
- (b) List the normal sequence of steps in the breakdown of hemoglobin ?
- (c) What does it mean by open and closed circulatory systems ?
- (d) What is the difference in partial pressure of oxygen between arterial and venous blood ?
- (e) Describe the functions of the lymphatic system and how these functions correlate with the immune system ?

[Cont...

[2]

- (f) Lymph nodes are clustered in which three regions of the body ?
- (g) Which lymphatic organ stores broken down products of erythrocytes ?
- (h) What is the name given to the structure that transports lymphatic fluid away from a lymph node ?
- (i) How is the intestinal mucosa guarded against the acidic food entering from the stomach ?
- (j) Write the three major types of cells present in the gastric glands ?

Section – B

- 2.(i) What are the main secretions of the pancreas, which aids in digestion ? [10×1=10
- (ii) What are the main secretions of the pancreas, which aids in digestion ?
- (iii) Mention the main parts involved in the initiating a pressure gradient between the lungs and the atmosphere during normal respiration ?

[Cont...

- (iv) What are the formulae of Respiratory Quotient (RQ) ?
- (v) What is located between two pleural sacs and is the central compartment of the thoracic cavity ?
- (vi) Name the hormone crucial in parturition ?
- (vii) State the role of the epididymis in male fertility ?
- (viii) State the role of the ampullary-isthmic junction in the female reproductive tract ?
- (ix) What is the significance of LH surge through the menstrual cycle ?
- (x) What are the 5 functions of the urinary system ?

Answer any TWO from Q. 3, 4, 5. [2×10=20

- 3. What is Reticulo Endothelial System ? Please write the Rh factors, its significance and disorders of blood ?
- 4. Explain the E.C.G. mechanism and disorders of heart with the schematic representation ?
- 5. Write the mechanism of digestion, absorption of nutrients and disorders of GIT ?

[Cont...

[4]

Section - C

6. Answer all (Each carries 15 marks): [7×5]
- (a) Write a structure (anatomy) of male & female reproduction system with their functions ? [5]
 - (b) What is protein synthesis and write their links with genetic pattern of inheritance ? [5]
 - (c) Physiology of urine formation. [5]
 - (d) Regulation of respiration. [5]
 - (e) Difference between sympathomimetics and sympatholytic drugs. [5]
 - (f) Write the preanaesthetic medications ? [5]
 - (g) Write the phases of clinical trial and pharmacovigilance role ? [5]
 - (h) Essential drugs used in myasthenia gravis and its mechanism. [5]
 - (i) Explain the Dose Response Relationship with graphical representation. [5]



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