

HIRALAL MAZUMDAR MEMORIAL COLLEGE FOR WOMEN

DEPARTMENT OF FOOD AND NUTRITION

B.SC HONOURS 2ND SEMISTER

MODEL QUESTION PAPER

2ND SEM G

1. ANIMAL CELL

Animal cell: definition, structure and functions of different parts. Organelle

2. BLOOD

1. Define blood
2. Functions of blood
3. Composition of blood
4. Name some plasma proteins of human body, their functions
5. What is ESR?
6. What is blood coagulation? its normal time, name of procedure used to measure it, importance of blood coagulation, mechanism of blood coagulation with flow chart
7. Define serum, plasma vs serum
8. Define thrombosis,
9. Name of anti-coagulant both biological origin as well as used in blood bank
10. Why sodium citrate is used in blood bank as anti coagulant?
11. factors preventing coagulations
12. Factors hastening coagulation
13. Definition, composition, functions of RBC, WBC, platelets
14. ABO system
15. Universal donar and universal recipient

16. Rh factors, importance
17. Importance of blood grouping/ hazard of mismatched blood transfusion
18. lymph- definition, composition, functions
19. Blood vs lymph

3. CARDIOVASCULAR SYSTEM

1. What are the junctional tissues of heart? Describe with diagram and by mentioning its functions.
2. What is cardiac output? Describe stroke volume, minute volume, and cardiac index
3. What are the factors affecting cardiac output?
4. Define blood pressure, systolic pressure, diastolic pressure, pulse pressure, mean pressure,
5. What are the factors affecting blood pressure?
6. Write the name of instrument used to measure blood pressure of human.
7. What is the normal heart rate of human?
8. Describe cardiac cycle with a diagram.

6. REGULATORY SYSTEM

Short question (1/2/3)

1. What is the main function of endocrine gland?
2. What is islets cell?
3. Insulin secreted by which organ?
4. Which hormone is secreted from neurohypophysis?
5. What causes most thyroid disease?
6. Where is the prolactin hormone produced?

7. An enlarged pituitary gland caused for?
8. Which gland regulates the thyroid gland?
9. What is the function of suline?
10. What is the function of glucagon?
11. Full form of ADH, TSH, PTH, ACTH, FSH, GNRH, LH, STH, LTH, MSH.
12. What is sertoli cell?
13. What is t4, t3, thyrocalcitonin?
14. Which gland control calcium level in the blood?

Short note (4/5/6)

growth hormone, ACTH, PTH, TSH, ADH, insulin, glucagon, pituitary gland, thyroid gland, adrenal cortex, estrogen, progesterone, androgen, oxytocin, certoli cell, hypothalamus, structure of pituitary gland, thyroid gland, parathyroid gland, adrenal gland, pancreas, growth factor.

Long questions (6/10)

1. Characteristics of endocrine gland.
2. Structure and function of thyroid gland.
3. Hypothyroidism, hyperthyroidism, goiter.
4. Function of parathyroid hormone.
5. Function and structure f pituitary gland.
6. Function of insulin, glucagon, somatostatin.
7. Structure and function of adrenal cortex.
8. Function of gastrointestinal hormones.

. BRAIN AND SPINALCORD

1. What is the unit of nervous system ? describe.
2. What is cerebellum and medulla ?
3. Spinalcord originates from which part of the brain? Briefly describe the spinalcord.

4. Write down the function of brain and spinal cord.

5. What is somatic and autonomic control of the bodies.

7. DIGESTIVE SYSTEM

SHORT QUESTION

1. In which part of our body food gets absorbed?
2. Undigested food stored in the liver in the form of carbohydrate is called?
3. What is the function of bile juice?
4. Where does complete digestion of food occurs?
5. In which part of the body digestion of protein begins?
6. Name the glands associated with the human digestive system.
7. Food poisoning is caused by eating contaminated food, how can it be prevented?
8. What is digestive system?

LONG QUESTION

1. Describe the structure and function of digestive system, mouth, oesophagus, stomach, small intestine, large intestine, liver, pancreas, gall bladder.
2. Write down the composition and function of saliva, gastric juice, pancreatic juice, intestinal juice (succus Entericus), bile.
3. Digestion and absorption of carbohydrate protein, fat.

8. EXCITABLE CELL

