

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

MSc DEGREE EXAMINATION MAY 2024
(Third Semester)

Branch – FOODS AND NUTRITION

NUTRITIONAL BIOCHEMISTRY

Time: Three Hours

Maximum: 50 Marks

SECTION-A (5 Marks)

Answer ALL questions

ALL questions carry EQUAL marks (5 x 1 = 5)

- 1 Identify the following hormone that stimulates glucose utilization in liver and thus indirectly promotes its uptake.
(i) Adrenal (ii) Thyroid
(iii) Insulin (iv) Glucagon
- 2 Urease cleaves urea to ammonia and carbon di oxide. It is an example of ----- substrate specificity.
(i) Absolute (ii) Relative
(iii) Broad (iv) Specific
- 3 In which Jaundice, Unconjugated bilirubin is increased?
(i) Hepatic (ii) Hemolytic
(iii) Obstructive (iv) Intra hepatic
- 4 Hypothyroidism is associated with elevated plasma----- levels which can be reversed by thyroid hormone administration.
(i) protein (ii) cholesterol
(iii) enzymes (iv) coagulants
- 5 Name the hormone that causes Diabetes Insipidus.
(i) ADH (ii) AHD
(iii) APV (iv) VPA

SECTION - B (15 Marks)

Answer ALL Questions

ALL Questions Carry EQUAL Marks (5 x 3 = 15)

- 6 a. Illustrate the importance of Glycosylated Haemoglobin in Diabetics.
OR
b. Discuss on secondary hyper Lipidemia.
- 7 a. Explain protein electrophoresis.
OR
b. Recommend clinical significance of enzyme inhibition.
- 8 a. Produce major functions of liver.
OR
b. Apply renal concentration test for a person with renal disease.

Cont...

- 9 a. Determine the causes for mal absorption.
OR
b. State the clinical features in hypothyroidism and hyperthyroidism.
- 10 a. Produce the clinical value of cortisol.
OR
b. Discuss on Hormones secreted by Pituitary Gland.

SECTION -C (30 Marks)

Answer ALL questions

ALL questions carry EQUAL Marks

(5 x 6 = 30)

- 11 a. Elucidate on Diabetic keto acidosis.
OR
b. Analyze the role of Lipo proteins in cardio vascular diseases.
- 12 a. Appraise the functions of Immunoglobulins in plasma.
OR
b. Criticize the level of aminotransferases in Liver disorders.
- 13 a. Elucidate the metabolic changes in acute liver failure.
OR
b. Construct the biological functions of Kidney.
- 14 a. Compare the test of carbohydrate absorption with test of fat absorption.
OR
b. Enumerate on Pancreatic disorders.
- 15 a. Discuss on Hyperaldosteronism.
OR
b. Enumerate on disorders of pituitary functions.

Z-Z-Z

END