

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)
MSc DEGREE EXAMINATION MAY 2023
(Thirdt 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 For conducting GTT in children , range of oral glucose ----- g/kg is given on the basis of weight.
(i) 1.00-1.25 (ii) 1.25-1.50
(iii) 1.50-1.75 (iv) 1.75-2.00
- 2 VLDL formation requires----- and apo protein B.
(i) glycolipids (ii) phospholipids
(iii) sulpholipids (iv) cephalolipids
- 3 N₁ of purine is derived from amino group -----
(i) glycine (ii) Glutamine
(iii) formate (iv) aspartate
- 4 It acts as an antiseptic and causes some hydrolysis of all the food stuff
(i) pepsin (ii) renin
(iii) gastric lipase (iv) HCL
- 5 Cushing's syndrome is characterized by -----
(i) hypoglycemia (ii) positive nitrogen balance
(iii) hyperglycaemia (iv) Anorexia

SECTION - B (15 Marks)

Answer ALL Questions

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

- 6 a. Determine the role of Ketones in Diabetes mellitus.
OR
b. Recommend the clinical significance of Amylase.
- 7 a. State the clinical manifestations of Gaucher's Disease.
OR
b. Discuss on immunoglobulins.
- 8 a. Explain Plasma proteins.
OR
b. State the abnormal constituents of Urine.

Cont...

- 9 a Recommend the significance of Gastric function.
OR
b Show the disorders of thyroid gland.
- 10 a Explain ACTH stimulation test.
OR
b State the hormones secreted by Pituitary Gland.

SECTION -C (30 Marks)

Answer ALL questions

ALL questions carry EQUAL Marks

(5 x 6 = 30)

- 11 a Elucidate the causes of Hypoglycaemia.
OR
b Construct the properties of Enzymes.
- 12 a Evaluate the metabolism of Lipoproteins.
OR
b Enumerate on C-Reactive protein and Ceruloplasmin
- 13 a Recommend the most important diagnostic test for Jaundice patient.
OR
b Assess the biochemical abnormalities in acute renal failure.
- 14 a Compare carbohydrate absorption with fat absorption.
OR
b Criticize the regulation of thyroid hormone secretion.
- 15 a Elucidate the plasma potassium and plasma renin activity in hyper aldosteronism.
OR
b Differentiate hypopituitarism and hyperpituitarism.

Z-Z-Z

END