

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

MSc DEGREE EXAMINATION DECEMBER 2022
(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. Enzymes catalyzing the synthetic reactions where two molecules are joined together are known as
(i) transferases (ii) lyases
(iii) ligases (iv) isomerases
2. DOPA can act as a co factor for
(i) Fumaryl hydrolase (ii) tyrosine transaminase
(iii) Phenylalanine hydroxylase (iv) tyrosinase
3. Purines are not synthesized in
(i) Liver (ii) brain
(iii) spleen (iv) kidney
4. Thyroid hormones stimulate the metabolic activities and increases the oxygen consumption in tissues except
(i) lungs (ii) erythrocytes
(iii) synovial fluid (iv) pancreas
5. Cushing syndrome is the set of symptoms that results when there is a surplus of ----- in the body.
(i) Glucagon (ii) adrenaline
(iii) cortisol (iv) norepinephrine

SECTION - B (15 Marks)

Answer ALL Questions

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

- 6 a. Determine the relationship between insulin and diabetes.
OR
b. Illustrate the diagnostic value of Lactate dehydrogenase.
- 7 a. Discuss on Niemann-Pick disease.
OR
b. State the clinical significance of alpha macro globulin.
- 8 a. Explain hypouricemia.
OR
b. Show the normal constituents of Urine.
- 9 a. Analyze the clinical features of mal absorption syndrome.
OR
b. Choose the factors affecting thyroid concentration.

Cont...

- 10 a. Evaluate basal hormones function test.
OR
b. How do you assess pituitary function?

SECTION -C (30 Marks)

Answer ALL questions

ALL questions carry EQUAL Marks

(5 x 6 = 30)

- 11 a. Enumerate on clinical manifestations in Glycogen storage diseases.
OR
b. Compare reversible enzyme inhibition with irreversible enzyme inhibition.
- 12 a. Criticize the metabolism of LDL and HDL.
OR
b. Elucidate the clinical significance of retinol binding protein.
- 13 a. Assess the plasma protein levels in acute liver diseases.
OR
b. Enumerate on renal blood flow and filtration fraction.
- 14 a. Develop diagnostic test for *H.Pylori* infection.
OR
b. Construct indirect tests for an obese male subject with chronic pancreatitis.
- 15 a. Evaluate the action of Glucocorticoids.
OR
b. Comment on hyper aldosteronism.

Z-Z-Z

END