

Q.P. Code: 137005

Reg. No.....

**First Professional B.S.M.S Degree Regular/Supplementary Examinations
March 2026**

Uyir Vedhiyiyal (Bio Chemistry)

(2021 Scheme)

Time: 3 hrs

Max. Marks: 100

- Answer all questions to the point neatly and legibly • Do not leave any blank pages between answers • Indicate the question number correctly for the answer in the margin space
- Answer all parts of a single question together • Leave sufficient space between answers
- Draw table/diagrams/flow charts wherever necessary

1. Multiple Choice Questions

(20x1=20)

The responses for MCQ questions (Q.No. i to Q.No. xx) shall be written continuously on the first two writing sheets (ie Page No. 3 & 4) only

- The Number of asymmetric Carbons present in Glucose
a) 2 b) 4 c) 6 d) 8
- The Following Phospholipid possess antigenic properties
a) Cardiolipin b) Lecithin c) Cephalin d) Plasmalogen
- One of the Following is a non – vitamin Coenzyme
a) Coenzyme A b) Lipoic Acid
c) S – Adenocylmethionine d) NADP +
- The Monosaccharide that is most rapidly absorbed in the small intestine
a) Glucose b) Fructose c) Galactose d) Arabinose
- Hartnups disease is characterized by the inability of the body to produce the following coenzymes
a) FMN and FAD b) NAD + and NADP +
c) Pyridoxal Phosphate d) Coenzyme A
- The Victims of Glucose -6 – Phosphate dehydrogenase deficiency are resistant to
a) Malaria b) Filaria c) Tuberculosis d) Hepatitis
- Niemann – Pick disease is due to a defect in the enzyme
a) Ceramidase b) Sphingomylinase
c) Beta Galactosidase d) beta Glucosidase
- Iron of heme binds with the globin through the amino acid
a) Histidine b) Proline c) Tyrosine d) Aspartate
- Gout is a metabolic disease associated with the Overproduction of
a) Uric acid b) Urea c) Purines d) Ammonia
- Vitamin B 12 is synthesized by
a) Animals only b) Plants only
c) Animals & Plants d) Microorganism only
- Copper is necessary for Proper Synthesis of
a) Hemoglobin b) Collagen c) Melanin d) All of the above
- The protein with highest biological value
a) Meat Protein b) Egg Protein c) Milk Protein d) Fish Protein

(PTO)

- xiii. The Amino acid precursor for the synthesis of catecholamines
a) Tyrosine b) Tryptophan c) Arginine d) Cysteine
- xiv. Prostaglandins are not synthesised in
a) Prostate gland b) Liver c) Kidney d) Erythrocyte
- xv. Apoptosis is Programmed Cell
a) Growth b) Differentiation c) Development d) Death
- xvi. Pentagastrin employed in gastrin function employs
a) Peptide b) Trisaccharide c) Phospholipid d) Amino acid
- xvii. The Biological amine that is a powerful stimulant of gastric secretion
a) Tyramine b) Serotonin c) Histamine d) Ethanolamine
- xviii. The total Number of codons available to code for 20 amino acids
a) 20 b) 32 c) 64 d) 61
- xix. The Initiating codon in Protein biosynthesis
a) UAA b) UAG c) UGA d) AUG
- xx. The Principal extracellular cation
a) Na + b) K+ c) Ca+ d) Mg+

Short Answer Questions

(8x5=40)

- 2. Explain about Mechanism of enzyme action
- 3. Essential Amino acid
- 4. Write notes on Uncouplers
- 5. Explain degradation of purine
- 6. Write notes on Specific dynamic action
- 7. Give an account on biochemical functions of Prostaglandin
- 8. Write about the tests to detect Thyroid
- 9. Explain DNA repair

Long Answer Questions

(4x10=40)

- 10. Draw and Explain Beta oxidation of fatty acid
- 11. Give an account on biochemical functions, Transport and deficiency state of Iron
- 12. Explain about biochemical function, hyper and hypo condition of Hormones of adrenal medulla
- 13. Write about gastric function test

CORRECTION / NO-CORRECTION FILE
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Dated: 06-04-2026

Question No.1 (vii)

Replaced with "Von - Gierke's disease is due to the defect in the enzyme

- a) Hexokinase b) Glucose 6 Phosphatase**
c) Gluco Kinase d) Glucose 6 Phosphate dehydrogenase."

Corrections/Modifications/Replacement of Questions if any shall be made available to all students. Take the print out of the Correction File in such cases and distribute to all students.

(Sd/-)

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