THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[BPHARM 0122] JANUARY 2022 Sub. Code: 4254 (AUGUST 2021 EXAM SESSION)

B.PHARMACY DEGREE COURSE (NON-SEMESTER EXAMINATIONS) FIRST YEAR (Regulation 2009-2010) PAPER IV – BIOCHEMISTRY

Q.P. Code: 564254

Time: Three hours Answer ALL questions Maximum: 100 Marks

I. Elaborate on: $(2 \times 20 = 40)$

1. a) Write about HMP shunt and its significance.

- b) Write a note on substrate level Phosphorylation.
- 2. a) Explain in detail about Deamination and Decarboxylation.
 - b) Write the synthesis of Melatonin and Dopamine with its significance.

II. Write notes on: $(8 \times 5 = 40)$

- 1. β -Oxidation of saturated fatty acid.
- 2. IUB classification of enzymes.
- 3. Fatty liver.
- 4. Hyperbilirubinemia.
- 5. Classification and biological role of nucleic acids.
- 6. Glycogenolysis.
- 7. Enzyme induction.
- 8. Formation and utilization of Ketone bodies.

III. Short answers on:

 $(10 \times 2 = 20)$

- 1. Functions of Vitamin D.
- 2. Acid value.
- 3. Genome.
- 4. Define Carbohydrate.
- 5. Obesity.
- 6. Alkaptonuria.
- 7. Transamination.
- 8. Write any two properties of enzymes.
- 9. Jaundice.
- 10. Write the significance of Gluconeogenesis.
