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**PP—39—2023**

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**FACULTY OF SCIENCE AND TECHNOLOGY (PHARMACEUTICAL SCIENCE)**

**B.Pharm. (Second Semester) EXAMINATION**

**JANUARY, 2024**

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**BIOCHEMISTRY**

**Paper—(BP-203T)**

**(Monday, 01-01-2024)**

**Time : 10.00 a.m. to 1.00 p.m.**

**Time—3 Hours**

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**Maximum Marks—75**

**N.B. :— (i) Draw diagram/structure wherever required.**

**(ii) Figures to the right indicate full marks.**

1. Attempt *all* of the following :

10×2=20

(a) Define Carbohydrate.

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(b) Why is sucrose known as invert sugar ?

(c) Write a note on tertiary structure of protein.

(d) Define Saponification number.

(e) What is diabetes ?

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(f) Draw the structure ATP.

(g) What is meant by ketone bodies ?

(h) Define transamination.

(i) Draw the structure of purine.

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(j) Define transcription.

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2. Attempt any *two* of the following :

2×10=20

(a) Define biomolecules. Give their characters. Explain different biomolecules with their functions.

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(b) Discuss glycolysis. Explain stepwise pathway of glycolysis. Give its energetic and significance.

(c) Explain factors affecting enzyme activity and write a note on reversible enzyme inhibitor with example.

3. Attempt any *seven* of the following : <https://pharmacyindia.co.in/>

7×5=35

(a) Write a note on isoenzyme, NAD and NADP.

(b) Explain DNA replication.

(c) Discuss the functions of different Biomolecules.

(d) Explain ETC with its mechanism.

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(e) Differentiate between Glycolysis and HMP shunt.

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(f) What are lipids ? Explain various disorders of lipids.

(g) Analyze the relationship between energy, enthalpy and entropy.

(h) Prepare a note on mechanism of enzyme action.

(i) Write a note on polymerase chain reaction.

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