

# **2012 Scheme**

**QP CODE: 217006**

**Reg. No: .....**

## **Second Year B.Pharm Degree Supplementary Examinations February 2022**

### **Applied Biochemistry & Molecular Biology**

**Time: 3 Hours**

**Total 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*
- *Write equations wherever necessary.*

**Essay**

**(3x10=30)**

1. Describe citric acid cycle and explain the amphibolic role of the cycle
2. Describe in detail DNA replication. Add a note on genetic code
3. Define lipids. Classify them with suitable examples. Explain the biological significance of PUFA.

**Short notes**

**(14x5=70)**

4. Isoenzymes and their importance
5. Significance of pentose phosphate pathway
6. Diabetes mellitus
7. Heteropolysaccharides
8. Classify amino acids based on nutritional requirement
9. Biosynthesis of purine nucleotides
10. Polymerase chain reaction
11. DNA repair mechanism
12. Products formed from tyrosine
13. Atherosclerosis
14. Chemiosmotic theory
15. Bile acids
16. Enzyme inhibition
17. Ketone bodies

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