

AV – 2465

First Year Pharm. D. Examination

MEDICINAL BIOCHEMISTRY

Paper - 1.3

(USC – 35110)

P. Pages : 2

Time : Three Hours]

[Max. Marks : 70

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- Note :** (1) Question No. **One** is compulsory.
(2) Solve any **Six** questions.
(3) Use pen of Blue/Black ink/refill only for writing the answer book.

1. Solve any **Five** from following :
 - (A) Isoenzymes as diagnostic tools–Explain.
 - (B) Explain in short about types of RNA.
 - (C) Explain glucose tolerance test.
 - (D) How will you determine sodium in the body fluid ?
 - (E) Discuss about Genetic code.
 - (F) Write a note on Atherosclerosis. 15
2. (A) Define coenzymes and give their biochemical role. 5
(B) Give the IUB classification of enzyme. Write a short note on enzyme inhibition. 6
3. (A) Discuss about disorders of carbohydrate metabolism. 5
(B) Explain in detail about citric acid cycle along with its energetics. 6
4. (A) Explain the ketogenesis and ketolysis. 5
(B) Discuss about beta–oxidation. 6

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| 5. | (A) Explain in detail ETC with diagram. | 5 |
| | (B) Write a short note on oxidative phosphorylation. | 6 |
| 6. | (A) Explain transamination and deamination with suitable example. | 6 |
| | (B) Explain in detail urea cycle. | 5 |
| 7. | (A) Describe the catabolism of purine. | 5 |
| | (B) Explain in detail about active transport across the membrane. | 6 |
| 8. | (A) Enlist the test for NPN constituents. Give diagnostic importance of urea clearance test. | 5 |
| | (B) Explain physiological role and other function of liver. | 6 |
| 9. | (A) Explain in detail about RIA. | 6 |
| | (B) Give the composition of electrolytes in the extracellular and intracellular fluids. Discuss the regulation of water-balance. | 5 |

