

ADICHUNCHANAGIRI UNIVERSITY

Pharm.D Annual Examination – September 2019

TIME: 3 HOURS

MAX.MARKS: 70 MARKS

Sub: Medicinal Biochemistry

Q P Code: - 44104

- INSTRUCTIONS:**
1. Your answer should be specific to the questions asked.
 2. Write legibly.
 3. Write the same question numbers as they appear in this question paper.
 4. Draw neat labelled diagrams wherever necessary.

LONG ESSAY (answer any two)

2X10=20

1. Describe the steps involved in the complete oxidation of glucose to pyruvate under aerobic conditions with energetics
2. Define enzymes inhibition and discuss the different types of enzyme inhibition.
3. Describe the biosynthesis of cholesterol. Add note on the role of cholesterol in the body.

SHORT ESSAY (answer any six)

6X5=30

4. What is oxidative phosphorylation? How does it differ from the substrate level phosphorylation?
5. Describe the urea cycle and its importance
6. What is glycogenesis.
7. Describe ketogenesis.
8. Explain any two kidney function test.
9. What are coenzymes. Explain the role of thiamine as a coenzyme
10. Write a note on amphibolic nature of TCA cycle
11. Atherosclerosis
12. Explain the Glucose tolerance test or OGTT.

SHORT ANSWERS (answer all the questions)

10X2=20

13. Write any two high energy compounds.
14. Give the therapeutic uses of any two enzymes.
15. What is diabetes mellitus? Mention its types.

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16. Give significance of HMP shunt.
17. Write the purine and pyrimidine bases of DNA and RNA
18. What are uncouplers?
19. Define mutation.
20. Name any two glycogen storage diseases
21. Inhibitors of protein synthesis
22. Porphyria

ACU 09-09-2019 at 9.30 am to 12.30 pm