

STATE BOARD OF TECHNICAL EDUCATION AND TRAINING
TELANGANA
DIPLOMA EXAMINATION (ER-2020)
ER2020-APR-2023
II Year , PHARMACY END EXAM
ER20-23T



BIOCHEMISTRY & CLINICAL PATHOLOGY

PCODE
10203

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Exam Date: 27-04-2023

Session: FN

Duration: 3 Hours [10:00 AM To 01:00 PM]

[Total Marks: 80]

PART-A

Instructions:

1. Answer the following questions.
2. Each question carries ONE mark.

20 X 1 = 20

1. What are essential fattyacids.
2. Give example for Sulphur containing Amino acids
3. Deficiency of riboflavin causes _____
4. What is metabolism.
5. The principle cation of external fluid is _____
6. Life span of erythrocytes is about... _____
7. Define Carbohydrates.
8. Long continued deprivation of proteins in adults lead to _____ disease.
9. Which enzyme is used for diffusion of number of drugs
10. What is ketogenesis.
11. What are Major electrolytes. Give some examples.
12. By using Háy's test which component of urine is analysed.
13. What are Polysaccharides..
14. Which vitamin is necessary for blood coagulation
15. The term Biotechnology was given by.....
16. What are Phospholipids.
17. Where does the oxidative phosphorylation reaction occurs.
18. In which conditions very low specific gravity of urine is observed.
19. Millons test is specific for.....
20. Deficiency of iodine leads to _____

PART-B

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Instructions:

1. Answer any **TEN** questions.

2. Each question carries **THREE** marks.

10 X 3 = 30

21. Write a short notes on Optical isomerism.
22. Write the difference between DNA and RNA
23. What are vitamins.
24. Write the difference between transamination and deamination.
25. What is Oral Rehydration Therapy.
26. What is Anaemia. List out various types of Anaemia.
27. What is nucleoside and nucleotide
28. Define Lysozyme.
29. Write the biological role of Iron.
30. Define Protein & Aminoacid
31. What is Hyperammonemia and write its symptoms.

PART-C

Instructions:

1. Answer any **SIX** questions.

2. Each question carries **FIVE** marks.

6 X 5 = 30

32. Define a) Saponification value. b) Acid value. c) Acetyl number.
33. Write the classification of Proteins
34. Write the sources, chemical nature, functions and deficiency diseases of vitamin C.
35. Define and explain the citric acid cycle.
36. Write the Biological importance of Water.
37. Explain clinical significance of Lipid Profile tests.
38. Write a note on various types of Clearance tests.