

PHB Education
Sample Paper-2
Session – 2023 - 24
Course - D. Pharm 2nd year
Subject: Biochemistry & Clinical Pathology
Examination – Third Sessional Question Paper

Time: 2 hours

MM: 40

Attempt all the questions:

Section - (A)

Multiple choice Questions:

[5]

1. Who proposed the Lock & key model?

- | | |
|----------------------|---------------------|
| (a) Alice Ball | (b) Emil fischer |
| (c) Joseph priestley | (d) Dmitri Mendelew |

2. Which of the following is a tri carboxylic acid?

- | | |
|-----------------------|-------------------|
| (a) Acetic acid | (b) Succinic acid |
| (c) Oxalo acetic acid | (d) Citric acid |

3. Citric acid cycle is also called as

- | | |
|----------------------|----------------------|
| (a) Kreb cycle | (b) TCA cycle |
| (c) Glycolysis cycle | (d) Both (a) and (b) |

4. The first vaccine approved for avian flu in

- | | |
|----------|----------|
| (a) 2001 | (b) 2002 |
| (c) 2009 | (d) 2000 |

5. The normal range of prothrombin time is

- | | |
|------------------|------------------|
| (a) 1.6 second | (b) 12-16 second |
| (c) 12-16 minute | (d) 12-16 hours |

Very short answer type questions:

[5]

1. Give any two liver function tests.

2. How is albumin detected in urine?

3. What are the compositions of blood?

4. How many ATP are produced in TCA cycle?

5. Give any three modes of coenzymes.

Section - B

Short answer type question (attempt any five):

[5x3 = 15]

1. Write in detail about the fat soluble vitamins and its deficiency disease.
2. Give structure, biochemical role & deficiency disease of pyridoxine.
3. Explain the factors affecting enzyme activity.
4. Differentiate between enzyme & co-enzyme.
5. Explain the structure & function of lipoproteins.
6. Discuss the secondary structure of protein.

Section - C

Long answer type question (attempt any three):

[5x3 = 15]

1. Briefly explain the qualitative tests of protein.
2. Briefly discuss about the liver function and its function tests.
3. Briefly discuss about ETC.
4. Briefly explain gluconeogenesis pathway with its significances.