

**BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI1  
(END SEMESTER EXAMINATION)**

**CLASS: BSc MLT  
BRANCH: MLT**

**SEMESTER : V  
SESSION : MO/2024**

**SUBJECT: BMT5101 CLINICAL CHEMISTRY III**

**TIME: 3 Hours**

**FULL MARKS: 50**

**INSTRUCTIONS:**

1. The question paper contains 5 questions each of 10 marks and total 50 marks.
  2. Attempt all questions.
  3. The missing data, if any, may be assumed suitably.
  4. Before attempting the question paper, be sure that you have got the correct question paper.
  5. Tables/Data hand book/Graph paper etc. to be supplied to the candidates in the examination hall.
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Q.1(a)	How Cytochrome p450 enzymes are different than other enzymes? Enlist types of detoxification.	[5]	CO1	BL3
Q.1(b)	Discuss various phases of detoxification.	[5]	CO1	BL2
Q.2(a)	Enlist various methods of blood glucose estimation. Write principle of Folin Wu's method. Mention normal values of Serum amylase, serum cholesterol and alkaline phosphatase.	[5]	CO2	BL2
Q.2(b)	Discuss method for estimation of serum amylase.	[5]	CO2	BL2
Q.3(a)	Mention uses of antimetabolites besides its significance for cancer treatment. Mention some antibiotics used as antimetabolites for cancer treatment.	[5]	CO3	BL3
Q.3(b)	Discuss pyrimidine and purine compound used for the treatment of cancer.	[5]	CO3	BL2
Q.4(a)	Write on short on galactosemia and tyrosinemia.	[5]	CO4	BL2
Q.4(b)	Discuss urea cycle disorder.	[5]	CO4	BL2
Q.5(a)	Write about major hypotheses regarding mechanism of Alzheimer's disease (AD). Write in short about Parkinson's disease (PD).	[5]	CO5	BL1
Q.5(b)	Discuss structure and establishment of Human Immuno Virus (HIV) infection.	[5]	CO5	BL2

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