

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

**CLASS: BSc MLT
BRANCH: MLT**

**SEMESTER : III
SESSION : MO/2024**

SUBJECT: BMT301 CLINICAL CHEMISTRY II

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)	Write about the effect of starvation on protein metabolism. Mention the effect of starvation on serum albumin, glomerular filtration, glucocorticoids and urinary ammonia.	[5]	CO1	BL2
Q.1(b)	Explain starvation response of the body to carbohydrate metabolism.	[5]	CO1	BL2
Q.2(a)	Justify the statement "Iron is a one-way substance". Classify minerals with examples.	[5]	CO2	BL3
Q.2(b)	Discuss sodium and phosphate.	[5]	CO2	BL2
Q.3(a)	Justify the statement "there is no RDA for Vitamin K. Explain Cyanocobalamin.	[5]	CO3	BL3
Q.3(b)	Discuss vitamins D & K.	[5]	CO3	BL2
Q.4(a)	Discuss hormones of gonads. Name any natural analgesics that control pain and emotions.	[5]	CO4	BL2
Q.4(b)	Enlist the glycoprotein hormone and write their functions.	[5]	CO4	BL1
Q.5(a)	Mention requirement of radioactive isotope to serve as tracer. Explain methods for detecting and quantifying radioactivity.	[5]	CO5	BL2
Q.5(b)	Discuss therapeutic and diagnostic uses of radioisotopes.	[5]	CO5	BL2

:::19/11/2024:::E