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

CLASS: BSc MLT

BRANCH: MLT

SEMESTER: V

SESSION: MO/2024

SUBJECT: BMT5015 HEMATOLOGY AND BLOOD BANKING

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.

			CO	BL
Q.1(a)	Write the classification of anaemia. How cardiac features and ECG are affected in anemic patient.	[5]	CO1	BL3
Q.1(b)	Discuss clinical features, hematologic findings, bone marrow examination and biochemical investigations of acute lymphoblastic leukemia (ALL).	[5]	CO1	BL2
Q.2(a)	Normal range of bleeding time vary with methods used, explain the reason. Discuss	[5]	CO2	BL3
L ()	properties and functions of platelets.			
Q.2(b)	Explain prothrombin time (PT) determination.	[5]	CO2	BL2
Q.3(a)	Enlist etiology of Disseminated Intravascular Coagulation (DIC). Mention clinical	[5]	CO3	BL1
O 2(b)	manifestation and lab diagnosis of DIC. Discuss mechanism of DIC.	[5]	CO3	BL2
Q.3(b)	Discuss mechanism of Dic.	[5]	COS	DLZ
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Q.4(a) Q.4(b)	Define cytogenetics. Write in short on applications of cytogenetics. Explain various techniques used for cytogenic studies.	[5] [5]	CO4 CO4	BL1 BL2
کر.⊣(D)	Explain various cerniques used for cytogethic studies.	[2]	204	DLL
0.5(-)	Write the principle of ADO blood providing system. Write an importance of blood	re1	COF	DI O
Q.5(a)	Write the principle of ABO blood grouping system. Write on importance of blood grouping.	[5]	CO5	BL2
Q.5(b)	Discuss ABO blood grouping by tube method.	[5]	CO5	BL2

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