

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

CLASS: B.SC MLT
BRANCH: MLT

SEMESTER : II
SESSION : SP/2025

SUBJECT: BMT209 HISTOLOGY

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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		CO	BL
Q.1(a)	Enlist steps of tissue processing. How differentiation and blueing is carried out. Write about various types of microtomes.	[5] CO1	3
Q.1(b)	Discuss automated tissue processors.	[5] CO1	2
Q.2(a)	Mention significance of fixation. Enlist properties of an ideal fixative.	[5] CO2	2
Q.2(b)	Why fixation is carried out. Discuss Formalin and Bouin's fluid as fixatives.	[5] CO2	3
Q.3(a)	Mention significance of mounting. Mention properties of an ideal mountant	[5] CO3	2
Q.3(b)	Mention classification of mountant. Write in short on DPX.	[5] CO3	2
Q.4(a)	What is the purpose of histochemical staining? Write on sudan black and methyl blue as special stain.	[5] CO4	2
Q.4(b)	What are special stains. Write about Periodic Acid Schiff (PAS).	[5] CO4	2
Q.5(a)	Discuss briefly histological structure and conducting system of the heart.	[5] CO5	2
Q.5(b)	Enlist major layers of the digestive tract. Write on histological organisation of anterior view of the kidney.	[5] CO5	2

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