



বিদ্যাসাগর বিশ্ববিদ্যালয়

VIDYASAGAR UNIVERSITY

BMLT

4th Semester Paramedical Examination 2022

CYTOTECHNOLOGY & HISTOTECHNOLOGY

PAPER—XII (Unit-23)

Full Marks : 40

Time : 2 Hours

The figures in the right-hand margin indicate full marks.

Candidates are required to give their answers in their own words as far as practicable.

Illustrate the answers wherever necessary.

Answer any *two* questions.

2×15

1. What do you mean by tissue fixation? Write the importances of tissue fixation. State the composition of carnoy fixative. Describe the normoberic and hypoberic mode of infiltration and impregnation. 2+4+4+(2+3)
2. Describe the steps of H/E staining. Write the procedure of haematoxylin preparation. State the application of cryocut in histotechnology. 6+5+4

3. Write the principle of PAS staining. Why is periodic acid used as oxidizing agent here? Write the procedure of reagent preparation in PAS staining. What are PAS positive material? Write the steps of PAS staining.
3+2+4+2+4

4. Write the principle of Geimsa staining. State the steps of Geimsa staining. What are the target molecules stained by trichromo stain? State the steps adopted for trichrome staining.
3+4+2+6

Answer any *one* question. 1×10

5. What do you mean by graded dehydration? How will you prepare 500 ml of 90% alcohol from 70% and 95% alcohol? State the steps of graded dehydration of tissue samples.
2+3+5

6. What is the full form of DPX? Write the merits and demerits of it uses. What do you mean by automotion in histotechnology laboratory?
2+3+5