

B.Sc. MEDICAL LABORATORY TECHNOLOGY
SECOND YEAR
PAPER I – HISTOPATHOLOGY & CYTOLOGY TECHNIQUES

Q.P. Code: 725016

Time: Three Hours

Maximum: 100 Marks

Answer all questions

I. Elaborate on:

(3 x 10 = 30)

1. Explain the principle and methods of tissue processing including microwave processing.
2. What is Exfoliative cytology? Explain the methods of processing and smear preparation from fluids.
3. Explain the principle and uses of Immunoflorescence.

II. Write notes on:

(8 x 5 = 40)

1. Silver stains and its uses.
2. Explain the method of Honing and stropping.
3. Mention any three embedding media and their uses.
4. PAS stain, explain the principle and uses.
5. Name one Melanin stain and give the details of the procedure.
6. Mention one museum mounting media and its uses.
7. Mention any three stains used for the identification of fungi and describe the appearance of fungi in any one stain.
8. Methods of decalcification of bone.

III. Short answers on:

(10 x 3 = 30)

1. What is Fixation?
2. Uses of Frozen section.
3. Ripening of stains.
4. Use of Perl's stain.
5. Name the Acid fast stain for tissues.
6. Name any two clearing agents and mentions its use.
7. Mention the Mounting medias available for histo and cytopathology slides.
8. Name the adhesive used for routine histopathology sections and give its composition.
9. Use of Cryostat.
10. Use of Carnoy fixative.