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

O.P. Code: 725016

Time: Three Hours Maximum: 100 Marks

Answer all questions

I. Elaborate on: $(3 \times 10 = 30)$

1. What is microtomy? Mention various types of microtomes available and describe the important parts of Rotary microtome.

- 2. What is Exfoliative cytology? Explain the methods of processing and smear preparation from fluids.
- 3. Explain the principle and uses of Immunohistochemistry.

II. Write notes on: $(8 \times 5 = 40)$

- 1. Liquid based cytology.
- 2. What is the principle and use of enzyme histochemistry?
- 3. Mention the Staining methods for amyloid.
- 4. Principle and use of Polarising microscope.
- 5. What is a Counterstain? Give example.
- 6. Mention any three stains used for the identification of fungi and describe the appearance of fungi in any one stain.
- 7. Safe practices in Histopathology lab.
- 8. What is fixation? Mention any three fixatives in Histo and Cytopathology.

III. Short answers on:

 $(10 \times 3 = 30)$

Sub. Code: 5016

- 1. Principle of silver stains.
- 2. Use if Ultramicrotome.
- 3. Uses of Frozen sections.
- 4. MGG stain Expand and mention its use.
- 5. What is Regressive staining?
- 6. Use of Fite faraço stain.
- 7. Mounting agent for immunoflorescence sections.
- 8. Expand FISH and mention any one use.
- 9. Mention the use of microwave in immunohistochemistry.
- 10. Name any two clearing agents and mentions its use.
