

[LB 0212]

AUGUST 2012

Sub. Code: 5016

B.Sc. MEDICAL LABORATORY TECHNOLOGY

SECOND YEAR

PAPER I - HISTOPATHOLOGY & CYTOLOGY TECHNIQUES

Q.P. Code : 725016

Time : Three hours

Maximum : 100 marks

(180 Mins) Answer ALL questions in the same order.

I. Elaborate on:

Pages Time Marks

(Max.)(Max.)(Max.)

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|---|---|----|----|
| 1. What is microtome? What are the types? Explain rotary microtome. | 7 | 20 | 10 |
| 2. Explain the staining of fine needle aspiration technology. | 7 | 20 | 10 |
| 3. Explain the technique of fluorescence in SITU hybridization and its importance in diagnosis. | 7 | 20 | 10 |

II. Write notes on:

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|--|---|----|---|
| 1. MGG. | 4 | 10 | 5 |
| 2. Cryostat. | 4 | 10 | 5 |
| 3. Perls stain and its applications. | 4 | 10 | 5 |
| 4. Explain the stains for amyloid. | 4 | 10 | 5 |
| 5. Museum techniques. | 4 | 10 | 5 |
| 6. Fixation and embedding techniques for microscopy. | 4 | 10 | 5 |
| 7. Collection of sputum for cytology. | 4 | 10 | 5 |
| 8. Ziehl-Neelsen staining techniques. | 4 | 10 | 5 |

III. Short answers on

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|--|---|---|---|
| 1. Isopropyl alcohol. | 2 | 4 | 3 |
| 2. Water bath in histopathologic techniques. | 2 | 4 | 3 |
| 3. Ripening. | 2 | 4 | 3 |
| 4. Paraffin wax. | 2 | 4 | 3 |
| 5. Cells in normal vaginal smear. | 2 | 4 | 3 |
| 6. Troubleshooting in fixation. | 2 | 4 | 3 |
| 7. 'L' block. | 2 | 4 | 3 |
| 8. Autolysis. | 2 | 4 | 3 |
| 9. Honing. | 2 | 4 | 3 |
| 10. Melanin bleach. | 2 | 4 | 3 |
