Exam.Code: 1370 Sub. Code: 46484

2055

B. Voc. (Medical Lab Technology) Fourth Semester MIT-404: Introduction to Cytopathol

BMLT-404: Introduction to Cytopathology (Common with ADMLT)

Time allowed: 3 Hours

Max. Marks: 40

NOTE: Attempt five questions in all, including Question No. I which is compulsory and selecting one question from each Section.

x-x-x

1. Answer the following in brief: (8x1=8)

- 1. Define cytopathology.
- 2. What are mitochondria?
- 3. Name two stains used for immunological cells.
- 4. Where is media used in hematology?
- 5. What do you understand by FNAC?
- 6. Define leukemia.
- 7. What is a sex chromosome?
- 8. Who is regarded as the father of cytopathology?

Section I

- 2. (a) Briefly describe the cytoplasmic constituents of a cell. (4)
 - (b) What major precautions should be taken when handling cytology specimens? (4)
- 3. (a) Provide a brief overview of cytology. (4)
 - (b) Discuss the precautions necessary for handling gynecological samples. (4)

Section II

- 4. (a) Explain the mode of action and effects of cytological fixatives. (4)
 - (b) Write a short note on fluid specimens. (4)
- 5. (a) Describe the key quality parameters in staining techniques. (4)
 - (b) Provide a brief description of the Papanicolaou staining method. (4)

Section III

- 6. (a) Differentiate between benign and malignant cells. (4)
 - (b) How can pre-malignant lesions be detected? (4)
- 7. (a) Explain hormonal variations observed in cervical samples. (4)
 - (b) Write a short note on pregnancy testing. (4)

Section IV

- 8. (a) What is fine needle aspiration cytology (FNAC)? (4)
 - (b) Write a short note on the procedure for fine needle section cutting. (4)
- 9. (a) Discuss the role of FNAC clinics. (4)
 - (b) How can an anxious patient be educated to remain calm? (4)