

C.U.SHAH UNIVERSITY

Summer Examination-2018

Subject Name : Histopathology Techniques and Cytology

Subject Code : 2SC02HTC1

Branch: PGDMLT

Semester : 2

Date : 27/04/2018

Time : 10:30 To 01:30

Marks : 70

Instructions:

- (1) Use of Programmable calculator & any other electronic instrument is prohibited.
- (2) Instructions written on main answer book are strictly to be obeyed.
- (3) Draw neat diagrams and figures (if necessary) at right places.
- (4) Assume suitable data if needed.

| | | |
|------------|---|-------------|
| Q-1 | Attempt the following questions: | (14) |
| | a) Give name of one substitute of paraffin wax for tissue processing. | 1 |
| | b) Give name of one method of tissue preparation for rapid diagnosis. | 1 |
| | c) Enumerate name of two types of microscopes. | 1 |
| | d) Define autolysis. | 1 |
| | e) Give name of one mixture of fixatives. | 1 |
| | f) Give name of one fixative that causes tissue shrinkage. | 1 |
| | g) Write names of two different cytological methods. | 1 |
| | h) Write names of two different cytological fixatives. | 1 |
| | i) Give name of one dewaxing agent. | 1 |
| | j) Give name of one dehydrating agent. | 1 |
| | k) Give name of one clearing agent. | 1 |
| | l) Write names of two solutions used for decalcification | 1 |
| | m) Write name of two different types of haematoxyline stain | 1 |
| | n) Enumerate name of two cytological stain | 1 |

Attempt any four questions from Q-2 to Q-8

| | | |
|------------|--|-------------|
| Q-2 | Attempt all questions | (14) |
| | a) Describe various microtomes and their specific use | 10 |
| | b) Enumerate 4 fixatives used in tissue processing. | 4 |
| | | |
| Q-3 | Attempt all questions | (14) |
| | a) Describe various steps and method of manual tissue processing | 7 |
| | b) Describe methods of fine needle aspiration cytology | 7 |



| | | |
|------------|--|-------------|
| Q-4 | Attempt all questions | (14) |
| a | Describe decalcification procedure for bony tissue. | 7 |
| b | Describe quality control of histopathology laboratory | 7 |
| Q-5 | Attempt all questions | (14) |
| a | Describe waste management of histopathology laboratory | 7 |
| b | Discuss automation in cytology | 7 |
| Q-6 | Attempt all questions | (14) |
| a | Describe types,uses and principle of centrifuges used in cytology. | 7 |
| b | Define and describe steps used for honing of knife | 7 |
| Q-7 | Attempt all questions | (14) |
| a | Enumerate 4 special stains used in histopathology. | 4 |
| b | Write the contents of kesserling II & III solution | 6 |
| c | Describe the procedure of mounting solution (kesserling I) used for specimen in museum | 4 |
| Q-8 | Attempt all questions | (14) |
| a | Write the procedure of giemsa stain used for cytology | 4 |
| b | Write the procedure of Ziehl-Neelsen stain used for cytology | 6 |
| c | Write the contents and use of Zenker's fluid | 4 |

