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Total No. of Questions: [09]

Total No. of Printed Pages: [01]

B.Sc. MLS (Semester – 4th)
HISTOPATHOLOGY-1
Subject Code: BMLS1-426
Paper ID: [130517]

Time: 03 Hours **Maximum Marks: 60**

Instruction for candidates:

1. Section A is compulsory. It consists of 10 parts of two marks each.
2. Section B consist of 5 questions of 5 marks each. The student has to attempt any 4 questions out of it.
3. Section C consist of 3 questions of 10 marks each. The student has to attempt any 2 questions.

Section – A **(2 marks each)**

Q1. Attempt the following:

- a. Write down two merits and two demerits of formalin fixative.
- b. Name any two commonly used mountants.
- c. From which plant the haematoxylin dye is obtained.
- d. Name any two clearing agents.
- e. What is blueing in H & E staining.
- f. What should be the melting point of paraffin wax during impregnation.
- g. Name the fixative used in electron microscopy ?
- h. Name any two types of microtome. What is the function of microtome.
- i. Name any two methods to determine the end point of decalcification.
- j. Name any two embedding medium used in histopathology lab.

Section – B **(5 marks each)**

- Q2. Define and classify fixatives with examples.
- Q3. Explain the procedure of manual tissue processing.
- Q4. Define Decalcification. Name various decalcifying agents used in histopathology lab.
- Q5. Explain honing and stropping and why it is done.
- Q6. Differentiate between progressive and regressive stains with examples.

Section – C **(10 marks each)**

- Q7. Explain frozen section in histopathology. Write its method, merits & demerits.
- Q8. Explain in detail the parts and functioning of automatic tissue processor.
- Q9. Write down about the various laboratory equipments used in histopathology Lab. Write about the care and maintenance of laboratory equipments.