

2022

**Multi Skilled Health Worker (MSHW)
(B.Voc. Third Semester End Examination-2022)**

PAPER-303T

[Cytotechnology & Histotechnology]

Full Marks: 40

Time: 02 Hrs

*The figures in the right hand margin indicate marks
Candidates are required to give their answers in their own words as
far as practicable
Illustrate the answers wherever necessary*

Group-A

1. Answer any five question of the following: 5x2 = 10
- a) Write the name of 4 fixatives?
 - b) What is the purpose of histology?
 - c) What are two important objectives of fixation of tissue?
 - d) Why dehydration is important for tissue preparation?
 - e) Define infiltration.
 - f) What do you mean about impregnation?
 - g) Why xylene is a good clearing agent then benzene?
 - h) Why alcohol is good dehydrating agent then toluene?

(2)

Group-B

2. Answer any four questions of the following: **5x4 = 20**

- a) What are the important objectives of fixation of tissue?
- b) Write about the embedding process of tissue sample.
- c) State the method of cutting of paraffin block in microtome.
- d) Classify the staining molecules.
- e) Write the name of ingredients used for preparation of haematoxylin stain.
- f) Mention the composition of eosin.

Group -C

3. Answer any one question of the following: **1x10=10**

- a) What are the important objectives of dehydration of tissue?
Classify the various fixatives with example. Write the mechanism of clearing agents. **2+5+3**
- b) Write the major steps for permanent slide preparation. How do you collect the tissue from animal? **6+4**