

PG CBCS
M.SC. Semester-II Examination, 2021
MEDICAL LABORATORY TECHNOLOGY
PAPER: MLT 295
PRACTICAL
(CLINICAL PATHOLOGY)

Full Marks: 50

Time: 3 Hours

Answer any TWO questions of the following: 25X2=50

1. i) Write the process of sputum collection with precautions? 6
 ii) State the principle, procedure and inference of Ziehl – Neelsen Staining. 4+4+2
 iii) Make a note on the principle, procedure and limitations of “occult blood test”.
3+4+2
2. i) How will you perform the mucin clot test from synovial fluid? 5
 ii) How will you collect the peritoneal fluid to perform the routine test? 5
 iii) Write the principle, procedure and inference of one quantitative test to detect the glucose in supplied urine sample.
3+6+2
 iv) Write the principle and clinical significance of Rothera’s Test. 2+2
3. i) Which are the tests will you perform under physical, chemical and microscopic examination of semen? 5
 ii) Write the procedure of the sperm motility test? Enlist the different grade of sperm motility according to the guidelines of WHO. 5+5
 iii) After microscopic examination, state the different sperm morphology with their clinical significance. 4+6
4. i) Write the principle, procedure and interpretation of bilirubin detection by Fouchet’s Test. 2+4+1
 ii) How will you perform the foam test? Write its’ inference. 2+1
 iii) State the principle, procedure of urobilinogen detection in urine sample? How will you interpret this test? 2+4+2

(P.T.O.)

(2)

- iv) Write the procedure of heat-coagulation test. State the semi-quantitative gradation of this test. 3+3
5. i) State your pre-analytical assessment of a supplied urine sample. 3
- ii) How will you prepare sample for the microscopic analysis of urine? Make a list of any three types of clinically important microscopic observations after urinalysis. 5+4
- iii) State the procedure, inference of a qualitative test to detect sugar in urine sample. 4+5
- iv) Write the principle and clinical significance of Heller's Test. 2+2
6. i) State the sample collection procedure and clinical significance of microscopic examinations of pus sample. 4+3
- ii) How will you identify bed sore? 4
- iii) Make a list of observations of wound infection by naked eye examinations. 5
- iv) Write a short note on specimen collections from wound for the diagnostic purpose. 5
- v) How will you detect "urinary hemosiderin"? 4
