

PG CBCS
M.SC. Semester-II Examination, 2021
MEDICAL LABORATORY TECHNOLOGY
PAPER: MLT 201
(PATHOLOGY THEORY)

Full Marks: 40

Time: 2 Hours

Answer any **FOUR** questions of the following:

10X4=40

1. Define hypoxia. How does hypoxia induce cell injury? What is “Caseous Necrosis”? Make a list of morphological forms of cell injury? 2+3+2+3
2. What are the indications of vitamin C deficiency? What is the TNM staging of tumor in lung cancer? Describe the pathogenesis of metastasis. 2+3+5
3. If tobacco smoking is the etiology for “Buerger’s disease”, how does pathogenesis progress? Write the risk factor of “deep vein thrombosis (DVT)”. What are the causes of “Varicose vein”? 3+3+4
4. What is “acute respiratory distress syndrome (ARDS)”? Why is ARDS called hyaline membrane disease? Make note on characteristics of COVID-19 induced ARDS. 3+2+4
5. Define ‘tubercle’? Describe the etiology and immune-pathogenesis of tubercle formation. Make a list of pathogens those are causing “Lobar Pneumonia”. 2+5+3
6. What are the four stages of “Congestive heart failure (CHF)”? Differentiate acute and chronic heart failure. Make a comparative discussion of left and right sided heart failure on the basis of the causes and pathological changes. 2+3+5
7. How is “foam cell” developed? Discuss the different types of risk factors in “Atherosclerosis”. Make a time line with symptoms of “Atherosclerosis” development. 2+4+4
8. Write the principle of ‘Occult blood test’. What is lumbar puncture? What does it indicate if you found increased number of lymphocytes in CSF? Describe the importance and requirements of AFB test? 3+2+2+3