

**Rajiv Gandhi University of Health Sciences, Karnataka**  
**II Year B.Sc. Respiratory Care Technology Degree Examination – 28-Oct-2025**

**Time: Three Hours**

**Max. Marks: 50 Marks**

**Applied Pathology (RS-3)**  
**Q.P. CODE: 3396**

Your answers should be specific to the questions asked.

Draw neat labeled diagrams wherever necessary

**(Note: Both QP Codes 3396 and 3397 are to be answered within total duration of 3 hours)**

**LONG ESSAYS (Answer any One)**

**1 x 10 = 10 Marks**

1. Define chronic obstructive airway diseases and enlist the types. Discuss the etiopathogenesis and morphologic features of Emphysema.
2. Define and classify anemia. Discuss the laboratory diagnosis of Iron deficiency anemia.

**SHORT ESSAYS (Answer any Five)**

**5 x 5 = 25 Marks**

3. Describe the pathology and complications of mitral stenosis.
4. Discuss the etiopathogenesis of pulmonary edema.
5. Describe the morphological features of Myocardial Infarction.
6. Discuss the laboratory tests to diagnose bleeding disorders.
7. Describe briefly the types of primary cardiomyopathy.
8. Discuss the causes, effects and diagnosis of pericardial effusion.

**SHORT ANSWER**

**5 x 3 = 15 Marks**

9. Peripheral smear findings of chronic myeloid leukemia.
10. Define hypertension and mention the types.
11. List three differences between obstructive and restrictive pulmonary disease.
12. List three causes of Microcytic anemia.
13. Enumerate the causes of secondary Polycythemia.

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