

**Rajiv Gandhi University of Health Sciences, Karnataka**  
**I Year B.Sc. Allied Health Sciences Degree Examination – 19-Dec-2022**

**Time: Three Hours**

**Max. Marks: 80 Marks**

**PATHOLOGY**

(RS3 – Medical Laboratory Technology, Medical Imaging Technology and Radiotherapy Technology  
RS2 – Operation Theatre Technology, Cardiac Care Technology, Perfusion Technology, Renal  
Dialysis Technology, Respiratory Care Technology, Anaesthesia Technology and Neurosciences  
Technology)

**Q.P. CODE: 3154**

**(QP contains two pages)**

Your answers should be specific to the questions asked.

Draw neat, labeled diagrams wherever necessary.

**SHORT ESSAYS (Answer Any Eight)**

**8 x 5 = 40 Marks**

1. Describe the steps involved in Haematoxylin and Eosin (H&E) staining.
2. Describe the measurement of Haematocrit.
3. Honing and stropping of microtome knives.
4. Describe mounting of specimens in pathology.
5. Physical examination of urine.
6. List the properties of an ideal fixative.
7. WBC count.
8. List the anticoagulants used in hematology laboratory along with their uses and modes of action.
9. Examination of Sputum.
10. Quality control in laboratory.

**SHORT ANSWERS (Answer Any Ten)**

**10 x 3 = 30 Marks**

11. Tests for completion of decalcification.
12. Preparation of buffered Formalin fixative.
13. What is Erythrocyte Sedimentation Rate (ESR)? Mention two methods of measuring ESR.
14. CSF examination findings in pyogenic meningitis.
15. Dehydrating agents and their uses.
16. Microscopic examination of stool.
17. Laboratory safety guidelines.
18. Define Mean corpuscular Volume (MCV) and give its normal range.
19. Methods of Haemoglobin estimation.
20. Draw and label the bits taken in a hysterectomy specimen.
21. Types of crossmatch.
22. Activated Partial Thromboplastin Time (APTT).

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## **TO THE POINT ANSWERS (Answer Any Five)**

**5 x 2 = 10 Marks**

23. Draw a neat labelled diagram of an eosinophil.
24. Mention two types of Eosin.
25. Mention two crystals in urine.
26. Mention two ketone bodies.
27. Define clotting time.
28. Mention two embedding media.
29. Mention two slide mounting media.

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