



## Rajiv Gandhi University of Health Sciences, Karnataka

III Year B.Sc. (M.L.T) Degree Examination – APRIL 2017

Time: Three Hours

Max. Marks:80 Marks

### **PATHOLOGY - III (RS-2)**

**Q.P. CODE: 2903**

Your answers should be specific to the questions asked

Draw neat, labeled diagrams wherever necessary

#### **LONG ESSAYS (Answer any two)**

**2 x 10 = 20 Marks**

1. What is Karyotype and idiogram? How do you obtain cells for Karyotyping of human chromosomes? How do you classify human chromosomes?
2. Describe the methods of collection of specimen from respiratory tract, for cytological examination. Also describe the methods of preparation and staining of smears from these specimen.
3. Enumerate the various transfusion reactions. Explain the screening of blood for infective material.

#### **SHORT ESSAYS (Answer any six)**

**6 x 5 = 30 Marks**

4. Component therapy in blood banking
5. Chemical sterilization
6. Coomb's test
7. Hormonal cytology of female genital tract and cytological indices
8. Oncogenes
9. Bethesda system in cytology
10. Describe the different ways to collect sample from the urinary tract to study cancer cells.
11. HLA antigens and their significance

#### **SHORT ANSWERS (Answer any ten)**

**10 x 3 = 30 Marks**

12. Hybridoma technology
13. Cytology of the adenocarcinoma of lung
14. Use and care of microscope
15. Radiation changes in cervical cytology
16. FNAC of breast
17. Laminar flow equipment
18. Enumerate various cytological fixatives.
19. Procedure of May-Grunwald-Giemsa staining
20. G-banding
21. Principle of Immunocytochemistry
22. Barr body
23. List the indications for bone marrow biopsy.

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