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Rajiv Gandhi University of Health Sciences, Karnataka

I Year B.Sc. MLT Degree Examination – Aug 2013

Max. Marks: 80 Marks

Time: Three Hours

O.P. CODE: 3153

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

- Write the classification and functions of carbohydrates.
- Write briefly a note on nucleotides.
- Explain bicarbonate buffer system.
- 4. Define essential fatty acid. What are its functions?
- 5. Write the classification of amino acids based on nutritional requirement with examples.
- What are solutions? Classify them with suitable examples.
- Add a note on hot air oven with diagram.
- Explain Valency, Equivalent Weight, Normality, Molecular Weight and Molality with suitable examples.
- 9. Explain two-pan laboratory balance with a diagram.
- Explain saturated and super saturated solutions with suitable examples.

SHORT ANSWERS (Answer any Ten)

10 x 3 = 30 Marks

- Give any three major responsibilities of health care personnel.
- 12. Write a note on different types of tubes used in the laboratory.
- Give any three prefixes used in metric system.
- 14. Triglycerides and cholesterol
- Write the properties of salts.
- What are bases? Give two examples.
- Magnetic stirrer components and use
- What is part dilution? Give an example.
- Uses of refrigerators and cold boxes in laboratory
- SI units and classification
- Give the principle of centrifugation. Explain different rotor heads.
- 22. Draw the graph showing relationship between:
 - a. Absorbance and concentration
 - b. % Transmission and concentration

TO THE POINT ANSWERS (Answer any Five)

5 x 2 = 10 Marks

- 23. Automated pipette
- 24. Reference electrode
- Mention the types of RNA.
- Mention different types of waste in a laboratory.
- 27. Define amino acids
- 28. Name two indicators.
- 29. Write Henderson Hasselbalch's equation.

