# Rajiv Gandhi University of Health Sciences, Karnataka

## I Year B.Sc. Allied Health Sciences Degree Examination - 07-Jan-2022

### Time: Three Hours

## Max. Marks: 100 Marks

## BIOCHEMISTRY

(RS-3 - B.Sc Cardiac Care Technology, Perfusion Technology, Renal Dialysis Technology, Respiratory Care Technology, Neuro Sciences Technology, Anesthesia Technology, Operation Theatre Technology, Emergency and Trauma Care Technology)
(RS-4 - B.Sc Medical Laboratory Technology, Medical Imaging Technology and Radiotherapy Technology)

#### Anesthesia and Operation Theatre Technology Q.P. CODE: 3263 (QP contains two pages)

Your answers should be specific to the questions asked.

Draw neat, labeled diagrams wherever necessary.

#### LONG ESSAYS (Second Question Choice)

#### 2 x 10 = 20 Marks

- Explain chemistry, dietary source, daily requirement, functions and deficiency disorders of Vitamin D.
- Define beta oxidation. Enumerate the pathway of beta oxidation of even chain fatty acids and add a note on energetics of beta oxidation of palmitic acid.

Write the reactions citric acid cycle. Add a note on energetics.

#### SHORT ESSAYS (Question No 5 & 10 choice)

#### $10 \times 5 = 50$ Marks

- 3. Classify proteins based on their functions.
- 4. Nutritional importance of carbohydrates. TOSH KUMAN
- What are phospholipids? List their functions.

Write in brief preparation of 1000ml of 01~NH<sub>2</sub>SO<sub>4</sub>. (Gram molecular weight -98g, Specific gravity -1.8g/ml and percentage purity -98%)

- Outline steps of urea cycle.
- Define basal metabolic rate and write the about any four factors affecting basal metabolic rate.
- Classify enzymes with examples.
- 9. Functions of calcium.
- Creatinine clearance test.

## OR

Discuss about digestion of proteins.

- Define specific dynamic action of food. Mention SDA values for major macronutrients.
- 12. Explain Watson and Crick model of DNA.

## SHORT ANSWER (Question No 15 & 20 choice)

$$10 \times 3 = 30$$
 Marks

- 13. Ketosis.
- List any three functions of heteropolysaccharides.
- Functions of folic acid.

## OR

Biological value of proteins.

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