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B.Sc. RNLK-/GE1T/21

2021

Physiology

[First Semester]

Paper - GE1T

Full Marks : 40

Time : 2 hours

*The figures in the right-hand margin indicate marks.*

*Candidates are required to give their answers in their own words as far as practicable.*

*Illustrate the answers wherever necessary.*

**Group-A**

**1. Answer any five of the following: 5×2=10**

- a) Define colloid.
- b) What is iodine number?
- c) Why artificial pacemaker is used?
- d) Distinguish between nutritional & sickle cell anaemia?

*(Turn Over)*

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- e) What are anticoagulants?
- f) What do you mean by Ictosis?
- g) What is erythropoiesis?

**Group-B**

**2. Answer any four of the following. 4×5=20**

- a) How cardiac output is determined by Fick's method?  
5
- b) Mention the differences between hepatic bile & gall bladder bile.  
5
- c) Mention different components of normal ECG record.
- d) Write short notes on (i) Lung volumes,  
(ii) Reticulocyte count.  $2\frac{1}{2}+2\frac{1}{2}$
- e) What is erythroblastosis foetalis? 5
- g) Discuss briefly about the origin of heart sounds.  
Mention the peculiarities of coronary circulation.  
 $2\frac{1}{2}+2\frac{1}{2}$

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**Group - C**

**3. Answer any one of the following. 1×10=10**

- a) Mention the factors that affect the cardiac output.  
Briefly describe the process of erythropoiesis. 5+5
- b) Give an outline of TCA cycle emphasising on the enzymes of each step along with schematic diagram.

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