

Rajiv Gandhi University of Health Sciences, Karnataka

I Year B.Sc. Allied Health Sciences Degree Examination - 24-Nov-2023

Time: Three Hours

Max. Marks: 100 Marks

PHYSIOLOGY

(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: 3262

(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

1. Describe Pancreatic juice under a) Composition b) Functions c) Phases of secretion and d) Regulation of secretion.
2. Define cardiac output. Describe any four factors affecting cardiac output. List any two methods of measurement.

OR

Name the hormones of Posterior Pituitary gland and explain their actions.

SHORT ESSAYS (Question No 5 & 10 choice)

10 x 5 = 50 Marks

3. Describe the actions of hormone aldosterone.
 4. Describe the digestion of proteins in the digestive tract.
 5. Enumerate and list the functions of cerebrospinal fluid. Add a note on Lumbar puncture.
- OR**
- Define referred pain. Give two examples.
 6. Define Ovulation. Enumerate and list the role of various hormones on Ovarian changes during a menstrual cycle.
 7. Enumerate on functions of middle ear. Explain any two.
 8. Name the types of muscles in the body. Give any four differences between each type.
 9. List the forms of Oxygen and Carbon dioxide transport in blood. Draw a neat labelled diagram of Oxygen – dissociation curve.
 10. Enumerate the mechanisms of heat loss from the body. Describe any two of them.

OR

Enumerate the functions of skin.

11. Name the hormones that act on the kidney. Explain the role of any one.
12. Draw a neat labelled diagram of visual pathway.

SHORT ANSWER (Question No 15 & 20 choice)

10 x 3 = 30 Marks

13. Enumerate any three actions of Estrogens.
14. List any three functions of Succus Entericus.

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15. Draw a neat labelled diagram of nephron.

OR

Draw a neat labelled diagram of Cystometrogram.

16. List one function each of a) Cerebellum b) Basal ganglia c) Medulla oblongata.

17. List any three differences between 1st and 2nd Heart sounds.

18. Define Diuretic. Give two examples.

19. List any three functions of HCl acid in stomach

20. List the muscles of inspiration and expiration.

OR

Define a) Residual volume b) Functional residual capacity c) Tidal volume.

21. List the hormones produced by Adrenal Gland.

22. Classify plasma proteins. Give normal value of total proteins in blood.
