

Rajiv Gandhi University of Health Sciences

I Year B.N.Y.S Degree Examination – OCT-2019

Time: Three Hours

Max. Marks: 80 Marks

Physiology – Paper I (RS-3)

QP Code: 2527

(QP contains two pages)

Your answers should be specific to the questions asked.

Draw neat, labeled diagrams wherever necessary.

(Note - Answer Section-A and Section-B in separate answer booklets)

Section - A

Multiple Choice Questions

10 X 1 = 10 Marks

- Which part of the ECG corresponds to ventricular repolarization
 - The P wave
 - The QRS duration
 - The T wave
 - The U wave
- On which of the following does Aldosterone exert its greatest effect
 - Proximal tubule
 - Thin portion of the loop of henle
 - Thick portion of the loop of henle
 - Cortical collecting duct
- Blood monocytes are precursors of the
 - Macrophages
 - Antigen presenting cells
 - None of the above
 - Both a and b
- Vagal stimulation causes stimulation of
 - Chief cell
 - ECL cell
 - G cell
 - All the above
- Capacitance vessels are the
 - Aorta
 - Large veins
 - Capillaries
 - None of the above
- Conjugation of bilirubin occurs in
 - Erythrocytes
 - Granulocytes
 - Hepatocytes
 - Lymphocytes
- Most common blood group in India
 - A
 - B
 - AB
 - O
- P wave of ECG produced due to
 - Atrial repolarization
 - Ventricular repolarisation
 - Atrial depolarization
 - None of the above
- Parietal cell is stimulated by
 - Acetyl cholin
 - Gastrin
 - Histamine
 - All of the above

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10. End diastolic volume in the ventricle of heart constitutes the
- Pre load
 - After load
 - None of the above
 - Both a and b

Section B

LONG ESSAYS (Answer any two)

2 X 10 = 20 Marks

- Explain in detail about lung function test and their clinical significance.
- Explain in detail about regulation and variations of cardiac output.
- Explain the functions of pancreatic enzymes and its regulation.

SHORT ESSAYS (Answer any ten)

10 X 5 = 50 Marks

- What are baroreceptors and explain their function in regulation of blood pressure.
- List four gastro intestinal hormone and describe any one.
- What is anemia and add a note on pernicious anemia.
- Explain triple response.
- What is lung compliance and describe briefly.
- Define and classify hypoxia with an example.
- Mechanism of deglutination and its regulation
- Explain formation and function of Lymph.
- Draw jugular venous pulse tracing and explain causes for the different waves.
- Explain the fate of haemoglobin following haemolysis.
- Rh blood group
- Draw a normal ECG recorded in lead II and write short note on P – R interval.
