

BACHELOR OF SCIENCE (ANAESTHESIA & OT TECHNOLOGY) (CBCS - 2020 COURSE)
B. Sc. (Anaesthesia & OT Technology) Sem - I : WINTER :- 2021
SUBJECT: PHYSIOLOGY

Day : Friday
Date 18-02-2022

W-23386-2021

Time : 10:00 AM-12:00 PM
Max. Marks: 40

N.B.

- 1) There are **THREE** section as
Section A :- Objective Type questions : 10 marks
Section B :- Long Answer Questions : 20 marks
Section C :- Short Answer Questions : 10 marks
 - 2) Section A is given **SEPARATE** sheet and has to be answered on **SAME** sheet. This sheet should be completed within **first 20 minutes** of starting of the examination. The sheet with **section A** will be collected by Supervisor at the end of 20 minutes.
 - 3) You have to make ✓ such kind of mark in the box of the appropriate answers.
 - 4) There is no negative marking.
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Seat No. : _____

SECTION – A

Q.1 Characteristic feature of active transport is _____.

- ☐ does not require energy
- ☐ requires energy
- ☐ it is a downhill process
- ☐ substances move along concentration gradient

Q.2 Normal platelet count is _____.

- ☐ 4000-11000 / mm³
- ☐ 1.5 lac – 4 lac / mm³
- ☐ 6 lac – 7 lac / mm³
- ☐ 1-2 %

Q.3 Neutrophilia occurs in

- ☐ allergic conditions
- ☐ acute bacterial infections
- ☐ chronic bacterial infections
- ☐ parasitic infections

Q.4 If Red Blood Cells are suspended in hypertonic saline, then;

- ☐ Red Blood Cells will shrink
- ☐ Red Blood Cells will swell
- ☐ No change in shape of Red Blood Cells
- ☐ None of the above

PTO

Q.5 Decrease in White Blood Cell count is known as _____ .

- ☐ leucocytosis
- ☐ leucopenia
- ☐ leukemia
- ☐ thrombocytopenia

Q.6 All are plasma proteins, except

- ☐ fibrinogen
- ☐ albumin
- ☐ globulin
- ☐ actin

Q.7 Immediate source of energy for contraction of muscle is _____ .

- ☐ ATP
- ☐ Glucose
- ☐ Glycogen
- ☐ Fatty acids

Q.8 Pacemaker of human heart is _____ .

- ☐ Sinoatrial node
- ☐ Atrioventricular node
- ☐ Bundle of His
- ☐ Purkinje fibers

Q.9 Action potential for quiet inspiration is generated by _____ .

- ☐ Dorsal respiratory group of neurons
- ☐ Ventral respiratory group of neurons
- ☐ Apneustic center
- ☐ Pneumotaxic center

Q.10 Cause of first heart sound is _____ .

- ☐ Opening of Atrioventricular valves
- ☐ Closure of Atrioventricular valves
- ☐ Opening of Semilunar valves
- ☐ Closure of Semilunar valves

Total Marks obtained : _____

Signature of Invigilator

Signature of Examiner

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- 1) There are **THREE** section as
Section A :- Objective Type questions : 10 marks
Section B :- Long Answer Questions : 20 marks
Section C :- Short Answer Questions : 10 marks
 - 2) Section B has four long answer questions and **ANY TWO** questions have to be answered.
 - 3) Section C has Six short answer questions and **ANY FIVE** questions have to be answered.
 - 4) Section B and C should be written in **SAME** answer sheet.
 - 5) Draw neat diagram wherever necessary.
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SECTION – B

Long answer questions (attempt ANY TWO) (20)

- 1) Draw a diagram of Neuromuscular junction. Describe steps in transmission of impulse across Neuromuscular junction.
- 2) Define cardiac output. Describe various factors that determine cardiac output.
- 3) Define hypoxia. Enumerate its types. Describe effects of hypoxic hypoxia.
- 4) Draw and label dorsal column tracts. Enumerate functions of dorsal column tracts.

SECTION – C

Short answer questions (attempt ANY FIVE) (10)

- 1) List functions of surfactant.
- 2) State functions of platelets.
- 3) Enumerate functions of saliva.
- 4) List various plasma proteins in blood.
- 5) Define glomerular filtration rate.
- 6) List actions of estrogens.
