

BACHELOR OF SCIENCE (ANAESTHESIA & OT TECHNOLOGY) (CBCS - 2020
COURSE)

B. Sc. (Anaesthesia & OT Technology) Sem - III : WINTER- 2022

SUBJECT : APPLIED ANATOMY & PHYSIOLOGY RELATED TO ANAESTHESIA
TECHNOLOGY

Day : Monday

Time : 10:00 AM-12:00 PM

Date : 16-01-2023

W-23410-2022

Max. Marks : 20

N.B.

- 1) There are **THREE** section as
Section – A objective Type Questions - 20
Section – B Long Answer Questions - 20
Section – C Short Answer Questions - 20
- 2) Section – B has four Long Questions and **ANY TWO** questions have to be answered.
- 3) Section – C has six Short Questions and **ANY FOUR** questions have to be answered.
- 4) Section – A is given in **SEPARATE** sheet and has to be answered on **SAME** sheet. This sheet should be completed within first 20 minutes of starting of the examination. This sheet with Section A only will be collected by the Supervisor.
- 5) You have to make a such kind of mark in the box of the appropriate answers.

Seat No. : _____

SECTION – A

M.C.Q.'s

- 1) The cardiac muscle of the heart is
 - a) Pericardium
 - b) Epicardium
 - c) Endocardium
 - d) Myocardium
- 2) The maximum volume of air contained in the lung by full forced inhalation is called
 - a) Total lung capacity
 - b) Vital capacity
 - c) Tidal volume
 - d) Functional residual capacity
- 3) Duration of cardiac cycle is
 - a) 0.08 seconds
 - b) 0.8 seconds
 - c) 8 seconds
 - d) 80 seconds
- 4) The structure that connects kidney to urinary bladder is
 - a) Ureter
 - b) Urethra
 - c) Nephron
 - d) Pelvis

P.T.O.

- 5) All of the following are changes in gastrointestinal system in pregnancy except
- a) Increased intragastric pressure
 - b) Delayed gastric emptying
 - c) Increased lower oesophageal pressure
 - d) Increase gastrin secretion
- 6) Most physiological crystalloid solution is
- a) Ringer Lactate
 - b) Normal saline
 - c) Dextrose normal saline
 - d) Dextrose 5%
- 7) Airway passage connecting larynx and principal bronchi is called as
- a) Epiglottis
 - b) Glottis
 - c) Carina
 - d) Trachea
- 8) Chronotropic effect relates to
- a) Contractility
 - b) Distensibility
 - c) Heart rate
 - d) Automaticity
- 9) How many pairs of spinal nerves are found in human?
- a) 33
 - b) 31
 - c) 13
 - d) 12
- 10) Which of the following is the structural and functional unit of the human nervous system?
- a) Brain
 - b) Axon
 - c) Dendron
 - d) Neuron

Total Marks Obtained : _____

Signature of Invigilator : _____

Signature of Examiner : _____

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SECTION – B

Long Answer (Attempt any TWO) (20)

- 1) Describe conducting system of heart.
- 2) Discuss physiological changes in cardiovascular and respiratory systems in pregnancy.
- 3) Describe anatomy of brain and different functions of brain.
- 4) Draw diagram of respiratory system and describe in detail different lung functions.

SECTION – C

Short Answer (Attempt any FOUR) (20)

- 1) Preoxygenation
- 2) Enumerate different functions of kidney
- 3) Preload and afterload
- 4) Discuss different blood products used in OT.
- 5) Lithotomy position and its physiological effects.
- 6) What is normal blood pressure? What are different methods of blood pressure measurement.

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