

BACHELOR OF SCIENCE (NURSING) (CBCS-2022 COURSE)
B.SC. (NURSING) SEM-I : WINTER- 2022
SUBJECT : APPLIED ANATOMY & PHYSIOLOGY

Day : Monday

Time : 10:00 AM-01:00 PM

Date : 23-01-2023

W-25865-2022

Max. Marks : 13

N.B.

- 1) All questions are **COMPULSORY**
- 2) Put a tick mark in the appropriate box.
- 3) Use blue/black ball point pen only.
- 4) Each Question carries one mark.
- 5) Student will not be allotted any marks if he/she overwrites strikes or puts ink on the box once marked.

Seat No. _____ Signature of Supervisor _____

Marks Obtained _____

SECTION – A

Q.1 M.C.Q.

(13)

- 1) Following is the accessory muscles of respiration
 - a) Diaphragm
 - b) External intercostal muscles
 - c) Scalene
 - d) All of the above
- 2) _____ is the act as a pacemaker of the heart.
 - a) S.A Node
 - b) A.V. Node
 - c) Bundle of His
 - d) Perkinje fiber
- 3) Tachycardia is defined as _____.
 - a) Increase in HR
 - b) Decrease in HR
 - c) Normal HR
 - d) None of the above
- 4) Muscles attached to lateral surface of greater trochanter is _____.
 - a) Gluteus Maximus
 - b) Gluteus Medius
 - c) Gluteus Minimus
 - d) Piriformis
- 5) Lateral ventricle is connected to third ventricle by
 - a) Foramen of Menro
 - b) Foramen of Luschka
 - c) Foramen of Magendie
 - d) Median foramen

P.T.O.

- 6) B cells are activated by _____.
- a) Complement
 - b) Antigen
 - c) Antibody
 - d) Memory cell
- 7) Regarding eye, sensory receptors for vision are
- a) Ciliary body
 - b) Rods and cones
 - c) Olfactory cells
 - d) Lens
- 8) Anuria is defined as
- a) Failure to release urine
 - b) Blood in urine
 - c) Excessive urine production
 - d) Excessive urine production at night
- 9) Progesterone is secreted by
- a) Mature follicle
 - b) The ovarian follicle
 - c) The corpus luteum
 - d) B-lymphocytes
- 10) Which white blood cell forms antibodies?
- a) Neutrophils
 - b) Basophils
 - c) Monocytes
 - d) B-lymphocytes
- 11) All of the following are the functions of oxytocin; except
- a) Ejection of milk
 - b) Parturition
 - c) Fertilization
 - d) Formation of milk
- 12) In following which substance is not transported across the cell membrane by simple diffusion
- a) Fatty acid
 - b) Oxygen
 - c) Glucose
 - d) Steroids
- 13) Exchange of gases by diffusion between blood and body cells is known as
- a) Alveolar ventilation
 - b) Internal respiration
 - c) Pulmonary ventilation
 - d) External respiration

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- 1) All questions are **COMPULSORY**
- 2) Figures to the right indicate **FULL** marks.
- 3) Answers to both the section should be written in **SEPARATE** answer book.

SECTION – B (ANATOMY)

- Q.2** Write Eassy Type Question on any **ONE** of the following : (1×10=10) (10)
- a) Define cardiac output. (02)
 - b) Explain on factors regulating cardiac output. (04)
 - c) Discuss Right Atrium of heart with diagram. (04)
- OR**
- a) Define Broncho pulmonary segment. (02)
 - b) Discuss the regulation of respiration. (04)
 - c) Describe the gross anatomy of the lungs. (04)
- Q.3** Write Short Answer on **THREE** of the following: (3×5=15) (15)
- a) CSF and its function
 - b) Blood Coagulation
 - c) Humerus Bone
 - d) Cell membrane
 - e) Passive immunity
- Q.4** Write very short answer on any **THREE** of the following: (3×2=6) (06)
- a) Enlist the cranial nerves
 - b) Types of tissues
 - c) Lobes of cerebrum
 - d) Bones of the middle ear
 - e) Parts of large intestine

SECTION – C (PHYSIOLOGY)

- Q.5** Write Eassy Type Question on any **ONE** of the following : (1×10=10) (10)
- a) What are the functions of blood? (02)
 - b) Describe erythropoiesis. (04)
 - c) What are the types of blood groups? What is the clinical aspect of blood grouping? (04)
- OR**
- a) What is the composition of gastric juice? (02)
 - b) What is the mechanism and regulation of gastric secretion? (04)
 - c) What are the nursing implications for stomach? (04)
- Q.6** Write Short Answer on **THREE** of the following: (3×5=15) (15)
- a) Factors regulating Heart rate
 - b) Types of white blood cells and their functions
 - c) Oestrogen and progesterone
 - d) Errors of refraction
 - e) Extracellular fluid
- Q.7** Write very short answer on any **THREE** of the following: (3×2=6) (06)
- a) Enumerate methods of transport across cell membrane.
 - b) Functions of Bile
 - c) What is stroke volume of heart?
 - d) Macrophage
 - e) Functions of tongue

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