

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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Max. Marks : 62

**N.B.**

- 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 Easy 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 Easy 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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