



**1<sup>st</sup> Semester End Sem Examination: July 2024**

**Subject : Applied Anatomy & Applied Physiology**

**Program : BSc. Nursing**

**Roll No: .....**

**Full Marks : 75**

**Time : 3 Hours.**

**Instructions to the Candidates:**

- Read the question paper very carefully.
- Start writing from 2nd page onwards; Don't Write On The 1st Page Backside.
- Question Paper is divided into Three Parts -A, B.
- Section-A is containing 37 marks containing Six MCQ, Three Very Short , Three Short & One Essay Answer Questions.
- Section-B is containing 38 marks containing Seven MCQ, Three Very Short, Three Short & One Essay Answer Questions.
- Do not write anything except your Roll No. on the question paper.
- Possession of Mobile Phones or any kind of Written Material, Arguments with the Invigilator or Discussing with Co-Student will comes under Unfair Means and will Result in the Cancellation of the Papers.

**SECTION - A [Applied Anatomy]**

**Multiple Choice Questions**

**[6\*1=06 Marks]**

- (i) The female gametes in human is called
  - a) Sperm
  - b) Ova
  - c) Embryo
  - d) Zygote
- (ii) .Which is the longest segment of the digestive system of the human body?
  - a) Pancreatic Duct
  - b) Small Intestine
  - c) Large Intestine
  - d) Oesophagus
- (iii).which of the following portion of the stomach opens into the small intestine
  - a) Cardiac portion
  - b) Fundic portion
  - c) Pyloric portion
  - d) Body portion
- (iv).Which Blood vessels leave the heart and transport blood to the lungs
  - a) Venacava
  - b) Aorta
  - c) Pulmonary arteries
  - d) Pulmonary veins
- (v). The semi lunar valves prevent blood from flowing backwards:
  - a) Into the atria
  - b) Into the ventricles
  - c) Into the brain
  - d) Into the liver
- (vi). Which of the following is one of the part of hind brain-
  - a) Hypothalamus
  - b) Cerebellum
  - c) Corpus callosum
  - d) Spinal cord



**Very Short Questions [Answer any THREE out of FIVE - 06 Marks]  
[Each question Carry 02 marks]**

2. Difference between fertilization and implantation.
3. Which Cartilages is found in larynx?
4. Enlists down the chambers and the valve of the heart and its location.
5. Write down the Gross structure of lungs.
6. Enrol in the Anatomical positions.

**Short Questions [Answer any THREE out of FIVE - 15Marks]  
[Each question Carry 05 marks]**

7. Describe about the internal female reproductive organ.
8. Explain about the spinal cord along with its pathway.
9. List out 5 factors that influence blood pressure.
10. Explain about the structure of an Eye.
11. Describe IV Cannulisation.

**Essay Questions [Answer any ONE out of TWO - 10 Marks]  
[Each question Carry 10 marks]**

- 12 Explain briefly about the structure of the Heart? Describe pulmonary circulation?
13. Describe Double circulation. Explain the conduction system of heart with the help of the well labelled diagram.

**SECTION - B [Applied Physiology]**

**Multiple Choice Questions**

**[7\*1=07 Marks]**

14. (i) Normal blood volume
  - a) 4.5-6.6 liter
  - b) 4.5-5.5 liter
  - c) 5.5-7 liter
  - d) 7-8 liter
- (ii). which hormone is decreased in the menstrual cycle causing menstruation?
  - a) Progesterone
  - b) Prolactin
  - c) Oestrogen
  - d) Oxytocin
- (iii). which of the following performs the function of luteinizing hormone?
  - a) It stimulates the interstitial (leydig) cell to produce testosterone
  - b) It encourages the production of sperm by sustentacular (Sertoli) cells.
  - c) It stimulates the anterior pituitary to release FSH.
  - d). None of these
- (iv). GFR in a healthy individual is approximately -
  - a) 230 ml/l
  - b) 222 ml/l
  - c) 125 ml/l
  - d) 100 ml/l
- (v) PO<sub>2</sub> of arterial Blood is
  - a) 95
  - b) 104
  - c) 40
  - d) 40-100
- (vi) Digestion of carbohydrates starts in the



- a) Large intestine
- c) Buccal Cavity

- b) Small Intestine
- d) Stomach

(vii). in which form glucose is present in the body:

- a) Fat
- c) Amino acid

- b) Glycogen
- d) Insulin

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### Very Short Questions [Answer any THREE out of FIVE - 06 Marks]

[Each question Carry 02 marks]

- 15. Manuscript the function of Male Reproductive organ.
- 16. What is CSF Fluid? Write the formation and transportation of it.
- 17. What is the sound of the heart and how it is produce?
- 18. Explain Cardiac Cycle.
- 19. In what ways pulmonary vein is different from other veins?

### Short Questions [Answer any THREE out of FIVE - 15Marks]

[Each question Carry 05 marks]

- 20. Describe blood clotting mechanism in details.
- 21. Explain the types of Hypoxia.
- 22. Write the function of Vertebral column with a diagram of any part of Skeleton bone along with its labelled .
- 23. What are the Appendages of Skin enlist them and write about it.
- 24. How many Appendicular and Axial Bone are there and what are they.

### Essay Questions [Answer any ONE out of TWO - 10 Marks]

[Each question Carry 10 marks]

- 25. Describe nerve impulse. Write the pathway of nerve impulse?
- 26. Classify the nervous system and write in detail about the functional areas of the cerebrum.