

**Madhya Pradesh Medical Science University, Jabalpur****MBBS First Professional Examination Dec-2022****Paper Code-22BM0000100552****Subject- Physiology(New Scheme)****Paper-II**

Time: 3:00 Hours

Maximum Marks :100

Instructions:

- a) All questions are compulsory
  - b) Draw diagrams wherever necessary
  - c) Answers of Questions and Sub questions must be written strictly according to the serial order of question paper.
  - d) MCQ has to be answered in theory answer book
  - e) Please write MCQ answer neatly and in serial order with black or blue pen in brackets for example:- 1. (a) 2. (b)
  - f) MCQ has to be answered only once, any kind of repetition or cutting or erasing or whitener will be considered as malpractice.
- Such answers will not be counted in the marks and action will be taken according to UFM rules of University
- g) Subjective Answer should be answered in up to 30 words per marks. For example, if a question having 2 marks answer should be answered in up to 60 words.

**Q.1 Total MCQs : 10****10x1=10**

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1. Hormone which initiate milk ejection during Lactation.

- a. Prolactin
- b. Oxytocin
- c. Somatostatins
- d. Growth Hormone

2. Which compartment of the cochlea contains the organ of Corti?
  - a. Ampulla
  - b. Sacculle
  - c. Scala media
  - d. Scala tympani
  
3. The first order (primary afferent) cell bodies of the dorsal column—medial lemniscal system are found in which structure?
  - a. Spinal cord dorsal
  - b. Spinal cord ventral horn
  - c. Dorsal root ganglia
  - d. Nucleus cuneatus
  
4. Which hormone inhibits pituitary formation of FSH?
  - a. Testosterone
  - b. Inhibin
  - c. Estrogen
  - d. LH
  
5. Which structure secretes the intraocular fluid of the eye?
  - a. Ciliary processes
  - b. Cornea
  - c. Iris
  - d. Lens
  
6. Body temperature regulation center is located at
  - a. Pituitary
  - b. hypothalamus
  - c. Thalamus
  - d. Basal ganglia

7. In EEG, which wave has the lowest frequency?

- a. Alpha
- b. beta
- c. Delta
- d. Theta

8. Wallarian degeneration is seen in-

- a. Proximal cut end of nerve with cell body
- b. Distal cut end of nerve without cell body
- c. Both the free ends of the cut nerve
- d. All are true

9. Which of the following best describes the total volume of cerebrospinal fluid in an adult human nervous system (in milliliters)?

- a. 150
- b. 500
- c. 50
- d. 300

10. Which of the following is not essential for normal biosynthesis of thyroid hormones?

- a. Iodine
- b. Thyroglobulin
- c. Ferritin
- d. Protein synthesis

**Q.2 Long Answer Questions**

**2X20=40**

- a. Describe the physiological functions of basal ganglia. Write a short note on parkinsonism.
- b. Describe the ovarian changes in menstrual cycle.

**Q.3 Brief Answer Questions**

**6X05=30**

- a. Addison disease.
- b. Impedance matching.
- c. Visual pathway.
- d. Spermatogenesis.
- e. NREM (Non-Rapid eye movement) sleep.
- f. Broca's aphasia.

**Q.4 Short Answer Questions****10X02=20**

- a. Any four properties of reflex.
- b. Endocrine functions of Kidney.
- c. Cretinism.
- d. Name any two hormones regulate calcium metabolism.
- e. Light and dark adaptation.
- f. Function of schwanns cells.
- g. Lower motor neuron lesion.
- h. Acromegaly.
- i. Renshaw cell inhibition.
- j. Synaptic delay

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