Time: 3:00 Hours

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Maximum Marks:100

Government Medical College, Datia MBBS First Professional Examination 19th January-2023

Subject- Physiology

Paper- II

b) Draw c) Answe d) MCQ e) Please f) MCQ such ans g) Subje be answ	estions are compulsory diagrams wherever necessar, trs of Questions and Sub que has to be answered in theory t write MCQ answer neatly a has to be answered only once wers will not be counted in t	stions must be written strictly ac	blue pen in brackets for exam ng or erasing or whitener will n according to UFM rules.	ple: - 1. (a) 2. (b) t be considered as malpractice,
1	All but one is secreted by the posterior pituitary:			
	a. Neurophysin	b. ADH	c. Oxytocin	d. MSH
2	Vitamin D3 deficiency	y in adults leads to:		
	a. Ostecimperfecta	b. Osteoporosis	c. Rickets	d. Osteomalacia
3	In Argyll-Robertson pupil which one of the following reflexes is lost?			
	a. Near reflex	b. Accommodation reflex	c. Light reflex	d. Ciliospinal reflex
4	Audible frequency ra	inge of human ear is:		
	a. 20-500 Hz	b. 500-7000 Hz	c. 20-20000 Hz	d. 20-2000 Hz
5	Ovulation takes place mainly due to:			
	a. Increased secretion of oxytocin	b. Negative feedback relation between estrogen and LH	c. Positive feedback relation between estrogen and LH	d. Negative feedback relation between estrogen and FSH
6	Which part of brain is outside blood-brain barrier?			
	 a. Circumventricular organs 	b. Thalamus	c. Cerebellum	d. Basal Ganglia
7	Proprioception, vibration and stereognosis take relay in one of the following:			
	a. Intralaminar nucle	 b. Ventroposterior lateral nucleus 	c. Reticular nucleus	d. Anterior nucleus
8	A skeletal muscle de a. 1.5 micrometer	evelops maximum tension b. 3.2 micrometer	at sarcomere length of c. 2 micrometer	f: d. 4 micrometer
9	In smooth muscle, depolarization in brought about by			
	a. Na* influx	b. Cl' influx	c. K* influx	d. Ca** influx
10	The spinothalamic tracts transmit all the following sensations except:			
	a. Touch	b. Proprioception	c. Pain	d. Temperature
Q.2	Long Answer Question	15		2X20=40



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- State the mechanism of action, functions and regulation of thyroid hormones. Add a note on Grave's disease. a.
- Draw labelled diagrams of ascending tracts. Give their functions. ь.

Brief Answer Questions 0.3

6X05=30

Functions of placenta a.

5500

- Functions of progesterone b.
- C. Functions of hypothalamus
- Differentiate between the findings of upper motor neuron and lower motor neuron lesions. d.
- Draw a labelled diagram of visual pathway with effects of lesions at various levels. e.
- Explain the steps of cross-bridge cycle in skeletal muscle with the help of a diagram. f.

Q.4 Short Answer Questions

10X02=20

- Cushing syndrome
- ь. Rinne's test
- Steps in spermatogenesis C.
- Implicit and explicit memory
- e. Ataxia
- f. Sarcotubular system
- Turner syndrome
- h. Broca's aphasia
- Give reasons for polydipsia, polyphagia and polyuria in diabetes mellitus.
- j.

