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First Year MBBS Examination I MBBS PHYSIOLOGY PAPER I

Date: 02-02-2021

Time: 3 hours

Max Marks: 100

Instructions: INSTRUCTIONS: Attempt all questions in both sections: (Use separate answer book for each section)

Section 1

1.	Fill	in	the	bl	lank	(S:	(6)
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a.	In	the muscle weakness is
	caused	by an autoimmune attack against
	one of t	he CA2+ channels in the nerve
	endings	at the neuromuscular junction.
h	The do	on rofloyee become week in

- b. The deep reflexes become weak in pendular in lesion.
- c. High circulating levels of progesterone and estrogens in pregnancy prevent _____

preganglionic fibres- a) Epinephrine b) Nor

epinephrine c) Acetyl choline d) Dopamine



- 3. A 45 year old man visits a physician because of difficulties performing simple tasks that involve repetitive movements. The physician asks to turn one hand upward and downward at a rapid pace the man quickly loses all perception of the instantaneous position of the hand, which results in a series of delayed attempts and jumbled movements. Use this information to answer the following questions; (15)
 - a. This patient's neurological signs are most likely related to lesion within which part of the brain ?name the probable condition with its pathophysiology.
 - b. What are the connections and the functions of this part of the brain?
 - c. What are the other characteristics of disease associated with dysfunction of this part.
- 4. Write short notes on (any five): 5x2=10 (10)
 - a. Dark adaptation (C2- 1109)
 - b. Decerebrate rigidity (C2-955)



- 's choice Thalamic syndrome
- d. Sarcotubular system
- e. Impedance matching
- f. Passive transport
- 5. Explain briefly (any three): 3x5=15 (15)
 - a. Endogenous pain relief system
 - b. Female contraceptives
 - c. Stretch reflex
 - d. Compositions and functions of cerebrospinal fluid (C1-373)

Section 2

- 1. Discuss the common causes of infertility in a couple and role of in-vitro fertilization in managing a case of infertility, describe the following changes during different phases of menstrual cycle along with a suitable diagram; (20)
 - a. Hormonal
 - b. Uterine
 - c. Ovarian
 - d. Vaginal

- a. If circulating levels of free Thyroxin & Triiodothyronine decrease in infants.
- b. If LH surge rge in an ovulatory cycle is absent
- c. If vascular blockage of the thalamus occurs
- d. If Ciliary muscles get temporary paralyzed
- e. To pupil in oculomotor nerve paralysis
- f. To menstrual cycle in breast-feeding lady
- 3. Explain briefly (Any four): 4x5=20 (20)
 - a. Suckling reflex (C2-682)
 - b. Mechanism of accommodation of Eye(A.995) (8.894) (C2-1103)
 - c. Functions of insulin
 - d. Differentiate between action potential and receptor potential
 - e. Tests of pregnancy
