

Date: 04-01-2022

Instructions:

RUHS

First Year MBBS Examination

I MBBS PHYSIOLOGY PAPER I

Time: 3 hours

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

Section 1

Max Marks: 100

1. Fill in the blanks: (6)
 - a. The viability of the spermatozoa within the female genital tract is up to _____
 - b. In Parkinson's disease degeneration _____ neurons occurs.
 - c. The deep reflexes become weak and pendular in _____ lesion.
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d. Dwarfism is due to hypo secretion of _____

e. Glucose enters in the intestine and renal tubules by _____ transport.

f. Diabetes insipidus develops due to the deficiency of _____

2. Choose the correct option in the following multiple choice questions: (4)

- a. Chronaxie is a useful index of: a) Excitability
b) Contractility c) Conductivity d) Rhythmicity
- b. Following are the properties of chemical synapse except: a) Fatigue b) Summation c) Two way conduction d) Occlusion
- c. Consolidation of memory is a function of: a) Cerebral cortex b) Limbic system c) Thalamus d) Hippocampus
- d. Testosterone is secreted by: a) Leydig cells of testes b) Sertoli cells of testes c) Seminal vesicles d) Prostate

3. A 20-year old male patient reported to hospital with failure to gain height from the age of 8 years, poor secondary sexual characteristics and mental retardation (15) based on the above case scenario. Answer the following questions:

- a. What is the most likely diagnosis for this condition?
- b. Name the probable gland with its pathophysiology.
- c. What are the other characteristic of the disease diagnosed?

4. Write short notes on (Any five): (10)

- a. Conditioned reflex
- b. Flexor withdrawal reflex
- c. Menarche
- d. Corpus luteum
- e. Astigmatism
- f. Somatostatin

5. Explain briefly (Any three): (15)

- a. Oral contraceptives
- b. Cushing syndrome
- c. Sodium potassium pump
- d. Neuromuscular junction

Section 2

6. Enumerate the hormones secreted by the thyroid gland. Describe the function of thyroid hormones. Add a note on Myxedema. (20)

7. What will happen and why (Any five): (10)

- a. Incomplete transaction of spinal cord.
- b. Cerebellar hemisphere lesion.
- c. If LH surge in an ovulatory cycle is absent.
- d. Lesion of optic chiasma.
- e. To menstrual cycle in a breast-feeding lady.
- f. If vascular blockage of the thalamus occurs.

8. Explain briefly (Any four): (20)

- a. Myasthenia gravis
- b. Renal (kidney) function tests
- c. Functions of insulin
- d. Suckling reflex
- e. Composition and functions of cerebrospinal fluid (CSF)

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