

ZOOLOGY TEACHERS ASSOCIATION MALAPPUAM
FIRST YEAR HIGHER SECONDARY REVISION SERIES TEST -2022
ZOOLOGY

Total Score-30

Time-I Hour

Exam Number:-6

Chapters:Neural Control & Coordination , Chemical Coordination &Integration

Answer all questions from 1 to 3 .Each carry one score (3X1=3)

1. Which hormone has a role in the regulation of a 24-hour (diurnal) rhythm of our body

a)Thyroxine b)Melatonin c)Parathormone d)Adrenaline

2. Observe the first pair of words and write a suitable word for the second

Afferent nerves:- Transmit impulses from tissues/organs to the CNS

.....:- Transmit regulatory impulses from the CNS to the concerned periphery tissues/organs

3. The membranes of a pre-synaptic neuron and a post-synaptic neuron are separated by a fluid filled space called.....

Answer any nine questions from 4 to 14 .Each carry 2scores (9x2=18)

4. Complete the table

Endocrine gland	Hormone	Function
Heart A	Decreases Blood pressure
Pancreas	Insulin B
.... C	Erythropoietin	Stimulate erthropoiesis
Hypothalamus D	Delivery Hormone

5. Distinguish between the following :

(a) Electric synapse and Chemical synapse

(b) Rods and cones

6. (a)Identify the below stages of nerve impulse conduction.

(b)Name the ions involved in this process

① +++++++

② -----+++
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7. Expand the following

a) **TSH** b) **ACTH** c) **LH** d) **FSH**

8. Fill up the blank by choosing the suitable words given in the bracket

(neurotransmitter,reflex action,organ of Corti ,tympanic membrane)

a) The entire process of response to a peripheral nervous stimulation, that occurs involuntarily, i.e., without conscious effort or thought and

requires the involvement of a part of the central nervous system is called a

- b) The external auditory meatus leads inwards and extends up to the
- c) The axon terminals contain synaptic vesicles filled with
- d) is a structure located on the basilar membrane which contains hair cells that act as auditory receptor

9. Pick out the false statements given below, and correct it.

- (a) ADH prevents diuresis.
- (b) Parathyroid hormone decreases blood calcium level.
- (c) Thymosin promotes production of antibodies.
- (d) ANF increases blood pressure

10. (a) Name the three ossicles in the human middle ear?

(b) What are the functions of these ossicles?

11. Name the hormones whose deficiency is responsible for the following diseases/conditions

- a) **Dwarfism** b) **Diabetes mellitus** c) **Diuresis** d) **Goitre**

12. Answer the following

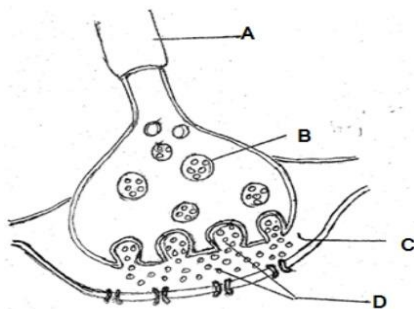
(a) Cerebral hemispheres of human brain are connected by.....

(b) Name the largest part of brain.

13. Match the columns A and B

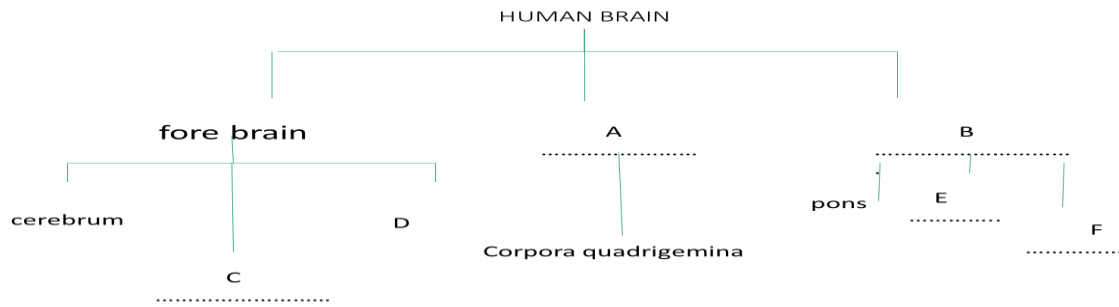
A	B
Eustachian tube	Balancing
Cochlea	Passage of sound waves
Semi circular canal	Equalising pressure on either side of the ear drum
Auditory canal	hearing

14. Observe the diagram and Label A, B, C and D



Answer any three questions from 15 to 18. Each carry 3 scores (3x3=9)

15. Complete the flow chart given below



16. Following are the hormones secreted by the gastro intestinal tract.

Write the functions of each hormone

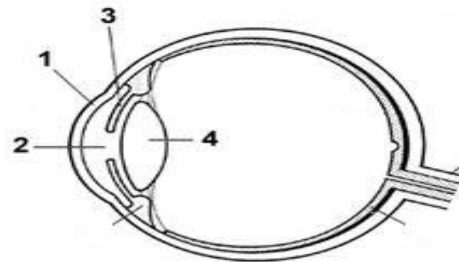
(a) Cholecystokinin

(b) Gastrin

(c) Secretin

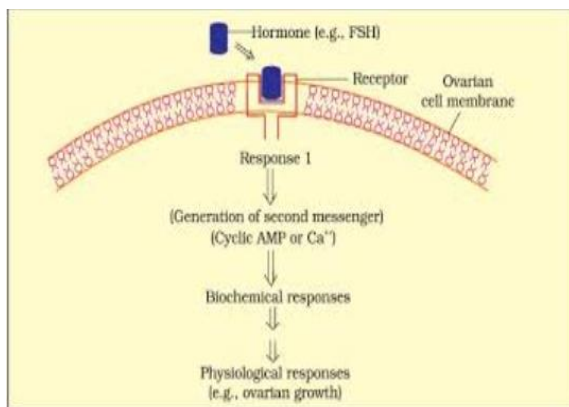
17. (a) Label the parts 1,2,3,4 in the given diagram.

(b) Name the photoreceptor cells present in eye.

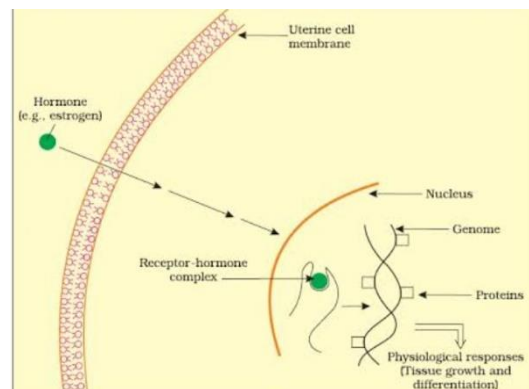


18. Given below is the diagrammatic representation of Mechanism of hormone action

Explain the mechanism of hormone action in A and B with examples



A



B