

**NEET - C22 - ENDOCRINE SYSTEM**

1. In two statements are given. Read the statements and mark the correct answer as:

Statement I Diabetes insipidus is marked by excessive urination and thirst.

Statement II Antidiuretic hormone (ADH) is secreted by the posterior lobe of pituitary.

- A. Statement I is correct, while statement II is incorrect  
B. Statement II is correct, while statement I is incorrect  
C. Both the statements are correct  
D. Both the statements are incorrect
2. A pregnant female delivers a baby, who suffers from stunted growth, mental retardation, low intelligence quotient and abnormal skin. This is the result of

- A. deficiency of iodine in diet  
B. low secretion of growth hormone  
C. cancer of the thyroid gland  
D. over secretion of pars distalis

3. What is correct to say about the hormone action in human?

- A. Glucagon is secreted by  $\beta$ -cells of islets of Langerhans and stimulates glycogenolysis  
B. Secretion of thymosine is stimulated with ageing  
C. In females, FSH first binds with specific receptors on ovarian cell membrane  
D. FSH stimulates the secretion of oestrogen and progesterone

4. Assertion Heart valves resemble swing doors in action. Reason Valves are present in the heart chamber, at the opening of the heart into large arteries and veins.

- A. Both assertion and reason are true and reason is the correct explanation of the assertion  
B. Both assertion and reason are true but reason is not the correct explanation of assertion  
C. Assertion is true but reason is false  
D. Both assertion and reason are false

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5. Match the following columns.

Column I	Column II
A. Hypothalamus	1. Sexcorticoids
B. Anterior pituitary	2. Oestrogen
C. Testis	3. FSH and LH
D. Ovary	4. Androgen
	5. Gonadotropin releasing hormone

	A	B	C	D
A.	5	3	4	2
B.	3	4	5	2
C.	1	2	3	4
D.	4	3	2	5

6. The interval between the closing of AV valves and opening of semilunar valves is called

- A. ventricular systole  
 B. isometric contraction period  
 C. ejection period  
 D. longest phase

7. A person is having problems with calcium and phosphorus metabolism in his body. Which one of the following glands may not be functioning properly?

- A. Parathyroid  
 B. Parotid  
 C. Pancreas  
 D. Thyroid

8. In each of the questions below, a statement of Assertion is given followed by corresponding statement of Reason. Of the statements, mark the correct answer as

Assertion Sometimes the secondary male sex organs, such as prostate gland, seminal vesicle and penis are underdeveloped and non-functional.

Reason This condition is due to the deficient secretion of testosterone in males.

A. If both Assertion and Reason are true and the Reason is the correct explanation of Assertion

B. If both Assertion and Reason are true, but Reason is not the correct explanation of

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Assertion

C. If Assertion is true, but Reason is false

D. If Assertion is false, but Reason is true

**9. Which of the following statement is correct in relation to the endocrine system?**

A. Adenohypophysis is under direct neural regulation of the hypothalamus

B. Organs in the body like gastrointestinal tract, heart, kidney and liver do not produce any hormones

C. Non-nutrient chemicals produced by the body in trace amount that act as intercellular messenger are known as hormones

D. Releasing and inhibitory hormones are produced by the pituitary gland

**10. The flight or fright hormone is secreted from**

A. adrenal cortex

B. adrenal medulla

C. Both 'a' and 'b'

D. chief cells of parathyroid gland

**11. The hypersecretion of thyroxine causes**

A. simple goitre

B. Grave's disease

C. tetany

D. gynaecomastia

**12. Which of the following statements is not correct?**

A. During high fever, one does not feel like taking meals because high temperature shuts off the appetite centre

B. In the upper one-third of oesophagus, only skeletal muscles are found

C. Choleric substances are substances which cause the contraction of gall bladder

D. Elephant tusks are modified incisor teeth

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**13. Match the following columns regarding ear ossicles.**

Column I (Ear ossicles)	Column II (Shape)	Column III (Modified form of)
A. Malleus	(i) Anvil	1. Hyomandibular
B. Incus	(ii) Hammer	2. Quadrate bone
C. Stapes	(iii) Stirrup	3. Articular bone

- A      B      C                                      A      B      C
- A. (i), 3    (ii), 2    (iii), 1                                      B.    (ii), 3    (i), 2    (iii), 1
- C. (ii), 2    (iii), 1    (i), 3                                      D.    (i), 1    (iii), 3    (ii), 2

**14. Which of the following are considered as degenerated chief cells?**

- A. Oxyphil cells                                      B. Islets of Langerhans
- C. Both 'a' and 'b'                                      D. Cells of embryonic buccal cavity

**15. From the statements given below, choose the correct ones regarding mode of action of water-soluble hormones.**

- I. Require extracellular receptors.
- II. Hormones bind to membrane receptors.
- III. Generation of secondary messenger.
- IV. Enter the cell and nuclei directly.
- V. Synthesizes new enzymes.
- A. I and II                                      B. I, II and III
- C. III, IV and I                                      D. IV, V and III

**16. Match the following columns.**

Column I	Column II
A. Gastrin	1. Inhibit gastric secretion
B. Secretin	2. Acts on gall bladder
C. CCK	3. Stimulate secretion of H <sub>2</sub> O and $HCO_3^-$
D. GIP	4. Secretion of HCl

- A      B      C      D                                      A      B      C      D
- A. 4      2      3      1                                      B. 1      2      3      4
- C. 4      3      2      1                                      D. 4      3      1      2

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**17. Choose the correct statement about 'neurohypophysis'.**

- A. It stores the hormones produced by adenohypophysis
- B. It is poorly developed and functionless in humans
- C. It stores and releases hormones secreted by hypothalamus
- D. It secretes its own hormones

**18. Which of following organisms possess uncinat process?**

- A. Mammals
- B. Rabbit
- C. Birds
- D. Frog

**19. Which of the following statement is not correct?**

- I. The hyopsecretion of LH in the adult life lead to a rare condition called Simmond's disease.
- II. Vasopressin released by pituitary is antidiuretic.
- III. Parathormone is responsible for regulation of calcium and phosphate metabolism

- A. Only I
- B. Only II
- C. I and II
- D. II and III

**20. In each of the questions below, a statement of Assertion is given followed by corresponding statement of Reason. Of the statements, mark the correct answer as**

Assertion Collip's hormone is secreted by the chief cells of parathyroid gland.

Reason It regulates calcium and phosphate level between blood and tissues.

- A. If both Assertion and Reason are true and the Reason is the correct explanation of Assertion
- B. If both Assertion and Reason are true, but Reason is not the correct explanation of Assertion
- C. If Assertion is true, but Reason is false
- D. If Assertion is false, but Reason is true

**21. Consider the following hormones. Which of them have direct effect on BP?**

- I. Thymosin
- II. Prolactin
- III. MSH
- IV. Adrenaline
- V. Nor-adrenaline

Select the option containing the correct pair.

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- A. I and II  
 B. III and IV  
 C. IV and V  
 D. I and IV

**22. A health disorder that results from the deficiency of thyroxine in adults and characterized by**

- I. a low metabolic rate  
 II. increase in body weight  
 III. tendency to retain water in tissues, is

- A. hypothyroidism  
 B. simple goitre  
 C. myxoedema  
 D. cretinism

**23. Consider the following statements regarding food absorption.**

- I. Rate of absorption of galactose is the lowest.  
 II. Fructose is absorbed by facilitated diffusion.  
 III. Failure to absorb cynocobalamin causes pernicious anaemia associated with a failure of RBC maturation.  
 IV. Reduced absorption of vitamin-K causes sterility in humans.

Which of these are correct?

- A. I and II  
 B. I and III  
 C. II and III  
 D. I and IV

**24. Hormones help to control many homeostatic mechanisms by positive or negative feedback loop.**

- I. Positive feedback loop, acts as self amplifying cycle.  
 II. Negative feedback loop, inhibits its own production.

Which of the above mentioned statements are correct?

- A. Only I  
 B. Only II  
 C. I and II  
 D. None of these

**25. Rapid increase in the blood sugar level of a patient can be immediately reduced by**

- A. injecting insulin intravenously  
 B. injecting insulin intramuscularly  
 C. administering glucagon intravenously  
 D. consuming large quantities of insulin tablets

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**NEET - C22 - ENDOCRINE SYSTEM - KEY**

1. C	2. A	3. C	4. B	5. A
6. B	7. A	8. A	9. C	10. B
11. B	12. C	13. B	14. A	15. B
16. C	17. C	18. C	19. A	20. B
21. C	22. C	23. D	24. C	25. A

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