

**2021-24**

Full Marks : 60

Time : 3 Hours

Candidates are required to give their answer in their own words as far as practicable. Their figures in the margin indicate full marks.

Answer from **both** the **Sections** as directed.

**Section - A**

**(Compulsory)**

**1(A).** Choose the a **correct** answer of the following : 1×5=5

(a) Acromegaly is a disorder caused by dysfunctioning of :

(i) Adrenal

(ii) Pituitary

(iii) Testis

(iv) Thyroid

(b) ICSH stimulates which gland ?

(i) Thyroid

(ii) Ovary

(iii) Testis

(iv) Pineal

(c) Increased calcium level in blood increases the level of ..... hormone.

(i) Parathormone

(ii) Aldosterone

(iii) Thyrocalcitonin

(iv) Insulin

(d) Flight and fight response is generated by :

(i) Testosterone

(ii) Glucocorticoid

(iii) Thyroxine

(iv) Adrenaline

(e) Pigmentation is Stimulated by :

(i) Calcitonin

(ii) MSH

(iii) Progesterone

(iv) Parathormone

(B). State **True** or **False** :  $1 \times 5 = 5$

- (a) Glucagon is lipid derived.
- (b) Excess urine is produced in case of Diabetes incipidus.
- (c) FSH targets Corpus Luteum of the ovary.
- (d) Thyroxine is finally formed in colloid of thyroid gland.-
- (e) Leydig cells are found within semeniferous tobules. <https://www.jharkhandstudy.com>

2. Write short notes on any **one** : 5

- (a) ADH
- (b) Adrenocorticotropic Hormone (ACTH)
- (c) Structure of Thyroid follicles
- (d) Luteinizing Hormone

### Section - B

Answer any **three** questions of the following :  
 $15 \times 3 = 45$

- 3. What is a Hormone ? Classify Hormones on the basis of their chemical nature. Give examples of each.
- 4. Name the hormones released by Testis and discuss their functions.

- 5. Mention the hormones released by pancreatic cells and discuss their functions.
- 6. Explain the various functions performed by Pineal gland.
- 7. Write short notes on any **two** :  $7.50 \times 2 = 15$ 
  - (a) Gigantism
  - (b) Dwarfism
  - (c) Cushing syndrome
  - (d) Addison's disease
  - (e) Goitre

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