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## NEET/JEE MAIN PRACTICE PAPER 2024-2025

- 1. Go through the following points-
  - I. Regulate the development, maturation and functions of epididymis, vas deferens, seminal vesicle, prostrate gland, urethra, etc.
  - II. Stimulate muscular growth of facial and axillary hairs, aggressiveness, low pitch of voice, etc.
  - III. Stimulates spermatogenesis
  - IV. Act on CNS and sexual behaviour (libido)
  - V. Produce anabolic (synthetic) effect on protein and carbohydrate metabolism
  - VI. The Leydig's cell / interstitial cells (present in intertubular space) secrete this hormone under the influence of LH
  - hormones-Above points are associated with \_\_\_
  - (a) FSH

- (b) Progesterone
- (c) Androgens (e.g. Testosterone) (d) Melatonin
- Find the odd one out-
  - (a) Insulin, Glucagon, Thymosin
  - (b) Glucocorticoids, Mineralocorticoids, sex corticoids
  - (c) Relaxin, Oestrogen, progesteron
  - (d) Nor-epinephrine, Adrenaline
- 3. Progesteron -
  - (a) Supports pregnancy
  - (b) Stimulates the formation of mammary alveoli
  - (c) Stimulates milk secretion (Lactation)
  - (d) All
- A hormone not involved in sugar metabolism is-
  - (a) Glucagon
- (b) Cortisone
- (c) Aldosterone
- (d) Calcitonin
- 5. Which one of the following part acts as an endocrine gland for tissue?
  - (a) Pars radiate
- (b) JG cells
- (c) Brunner's gland
- (d) Pancreatic acini
- Match the Column I with Column II-

	Column I		<u>Column II</u>
A.	Peptide,	I.	Epinephrine, nor-
	polypeptide		epinephrine
	protein hormones		
B.	Steroid	II.	T <sub>3</sub> and T <sub>4</sub> (thyroid
			hormones)
C.	lodothyronines	III.	Cortisol,
			testosterone,
			estradiol,
			progesterone
	Aminoacid		Pituitary
D.	derivatives	IV.	hormones,
			pancreatic
			hormones,
			hypothalamic
			hormone

- (a) A I, B II, C III, D IV
- (b) A IV, B III, C II, D I
- (c) A IV, B III, C I, D II
- (d) A I, B II, C IV, D III
- 7. Steroid hormones initiate the production of target cell substances in which manner?
  - (a) They initiate second messenger activity
  - (b) They bind with membrane protein
  - (c) They initiate DNA transcription
  - (d) They activate enzyme pathways
- **8.** Which of the following hormones does not act by a second messenger system?

	(a) Glucago	n (b) Epinephrine	(c) FSH (d) Testo	sterone				
9.	soluble horn pass through regulate ger (a) A – Prot (b) A – Lipi (c) A – Prot	mones usually need $\underline{C}$ h cell membrane and he expression or chromein, B – Water, C – Med, B – Water, C – In ein, B – Water, C – In	receptor that general bind to <u>F</u> receptors, nosome function by itembrane-bound, Dombrane-bound, Dombrane-boun	te <u>D</u> messengers for reg mostly <u>G</u> receptors. The interaction of hormone- - Second, E – Lipid, F – Second, E – Water, F – ond, E – Lipid, F – Extra	hormone receptors located in the target tissue only. <u>B</u> gulating cellular metabolism, <u>E</u> soluble hormones can be hormone receptor complex enter the <u>H</u> and mostly receptor complex with the <u>L</u> .  Intracellular, G – Nuclear, H – Nucleus, I – Genome intracellular, G – Nuclear, H – Nucleus, I – Genome accellular, G – Nuclear, H – Nucleus, I – Genome intracellular, G – Nuclear, H – Nucleus, I – Genome intracellular, G – Nuclear, H – Nucleus, I – Genome			
10	<ul><li>(b) Cortisol</li><li>(c) Small an</li></ul>		oids stimulates the R eroids is secreted by	BC production	sins production leading weak immune responses.			
11	1. Sleep-wake (a) Progeste (c) Oxytocii		ycle are maintained (b) Melatonin (d) MSH	by				
12	2. Vasopressin (a) Adenohy (c) Neurohy		synthesized by (b) Hypothalamus (d) Kidney					
13	3. Which horn (a) GIP	none acts on exocrine (b) Insulin (c) S	part of pancreas? ecretin (d) Ste	apsin				
14		betes mellitus is due to pancreatic beta cells	(b) Resistance to i (d) Malnutrition	nsulin				
15	5. Which of th (a) FSH and			n of estrogen at puberty ) GH	?			
(a (b (c (d	<ul> <li>16. A person entering an empty room suddenly finds a snake right in front on opening the door. Which one of the following is likely to happen in his neurohormonal control system? CBSE-AIPMT 2012</li> <li>(a) Sympathetic nervous system is activated releasing epinephrine and nor-epinephrine from adrenal medulla</li> <li>(b) Neurotransmitters diffuse rapidly across the cleft and transmit a nerve impulse</li> <li>(c) Hypothalamus activates the parasympathetic division of brain</li> <li>(d) Sympathetic nervous system is activated releasing epinephrine and nor-epinephrine from adrenal cortex</li> <li>17. Islets of Langerhans are</li> <li>(a) endocrine cells of adrenal medulla</li> <li>(b) exocrine cells of adrenal cortex</li> <li>(c) endocrine cells of pancreas</li> <li>(d) exocrine cells of pancreas</li> <li>(e) exocrine cells of pancreas</li> <li>(f) exocrine cells of pancreas</li> <li>(g) exocrine cells of pancreas</li> </ul>							
	eficiency	disorder.		Defeioner	-			
		Endocrine glands	Hormones	Deficiency disorders	-			
	(a)	Neurohypophysis	Vasopressin	Diabetes mellitus	-			
	(b)	Adrenal cortex	Corticosteroids	Addison's disease	-			
	(c)	Parathyroid gland	Parathormone	Myxoedema				

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19. The steroid hormones, oestrogen and progesterone are secreted by which part/structure of ovary?

(a) Ova and Leydig cells, respectively

(b) Ovarian follicle and corpus luteum, respectively

Acromegaly

(d)

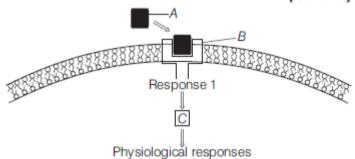
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Calcitonin

Thyroid gland

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- (c) Corpus luteum and corpus albicans, respectively
- (d) Graafian follicle and ova, respectively
- **20.** Which of the following given features are appropriate for progesterone?
- (a) Supports the pregnancy
- (b) Acts on the mammary glands and stimulates the formation of alveoli
- (c) Stimulates milk secretion
- (d) All of the above
- 21. 'ANF' is a hormone, which
- (a) is secreted in response to increased BP
- (b) decreases BP
- (c) causes vasodilation
- (d) All of the above
- 22. Cholecystokinin (CCK) acts on
- (a) pancreas
- (b) gall bladder
- (c) Both (a) and (b)
- (d) liver
- 23. Among the following sets of hormones, which one contain only peptide hormones?
- (a) Epinephrine, cortisol, pituitary hormones
- (b) TSH, hypothalamic hormones, oestradiol
- (c) Insulin, progesterone, cortisol
- (d) Insulin, glucagon, prolactin
- 24. Hormones, which interact with membrane bound receptors normally
- (a) enters into the cell membrane
- (b) do not enter the target cell
- (c) generate secondary messengers
- (d) Both (b) and (c)
- **25.**Which one of the following is not a second messenger in hormone action?
- (a) Calcium
- (b) Sodium
- (c) cAMP
- (d) cGMP
- **26.** Identify A, B and C in the diagrammatic representation of the mechanism of hormone action. **NEET** (Odisha) 2019



Select the correct option from the following

- (a) A-Steroid hormone, B-Hormone-receptor complex, C-Protein
- (b) A-Protein hormone, B-Receptor, C-CyclicAMP
- (c) A-Steroid hormone, B-Receptor, C-Second messenger
- (d) A Protein hormone, B–Cyclic AMP, C–Hormone-receptor complex
- **27.** Gradual atrophy degeneration with ageing is shown by
- (a) pineal gland
- (b) thymosin
- (c) adrenal cortex
- (d) Both (a) and (b)
- **28.**Mary is about to face an interview. But during the first five minutes before the interview she experiences sweating, increased rate of heartbeat, respiration, etc. Which hormone is responsible for her restlessness?
- (a) Oestrogen and progesterone
- (b) Oxytocin and vasopressin
- (c) Adrenaline and nor-adrenaline
- (d) Insulin and glucagon
- 29. The steroid responsible for balance of water and electrolytes in our body is
- (a) insulin
- (b) melatonin
- (c) testosterone
- (d) aldosterone
- **30.** Ahormone responsible for normal sleep-wake cycle is
- (a) epinephrine
- (b) gastrin
- (c) melatonin
- (d) insulin

1.	(c)
2.	(a)
3.	(d)
<b>4</b> .	
5.	
6. -	
7.	(c)
8.	(d)
9.	(a)
10.	(d)
11.	(b)
12.	(b)
13.	(c)
14.	(a)
15.	(a)
16.	(a) Epinephrine and nor-epinephrine are secreted by adrenal medulla (under the control of sympathetic nervous system) in response to stress of any kind or during emergency situations. These are also called emergency hormones or hormones of flight and fight. Thus, if a persons on suddenly entering a room finds a snake right in front of him, his sympathetic nervous system would get activated leading to the release of epinephrine and nor-epinephrine from the adrenal medulla.
17.	(c) The endocrine pancreas consists of islets of Langerhans. There are about 1 to 2 million islets of Langerhans in a normal human pancreas representing only 1 to 2 per cent of the pancreatic tissue. The two main types of cells in the islets of Langerhans are called a-cells and b-cells.
18.	(b) Only option (b) is correct. Others are incorrect and can be corrected as Neurohypophysis Vasopressin Diabetes insipdus Parathyroid gland PTH Hypocalcemic tetany Thyroid gland Calcitonin Osteoporosis
	(b)
	(d) (d) Atrial Natriuretic Factor (ANF) is a hormone which decreases blood pressure. ANF is secreted when blood pressure is high and causes dilation of the blood vessels. This reduces the blood pressure. Thus, option (d) is correct.
22.	(c) CCK acts on both pancreas and gall bladder and stimulate the secretion of pancreatic enzyme and bile juice, respectively.

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