



BIOLOGY

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CHEMICAL COORDINATION & INTEGRATION

Questions

1. Chemical which are nono-nutrients and act as inter cellular messengers are known as



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2. Tissues located in different parts of body like pituitary, pineal, thyroid etc. are counts as



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3. Group of neurosecretory cells which produces hormones and are located in hypothalamus are known as



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4. Hormone which is responsible to inhibit the release of growth hormone from pituitary is



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5. Anterior pituitary & posterior pituitary hormones are regulated by hypothalamus respectively through

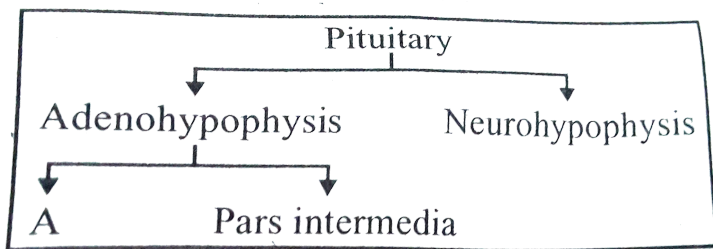


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6. bony cavity in which pituitary gland is situated in



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7.

'A' is the portion of adenophypophysis which secrets different hormones 'A' is ____



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8. Apart from humans melanocyte stimulating hormone is secreted through



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9. Hormone which are released from posterior pituitary are



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10. Over secretion and low secretion of HG at childhood leads to respectively.



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11. Hormone secreted by pituitary gland and regulates the mammary gland and formation of milk in them is



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12. In females, vigorous contraction of uterus at the time of child birth and milk ejection from the mammary gland is due to



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13. hormone responsible for reabsorption of water and electrolyte to reduce loss of water is



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14. Gland which is responsible for rhythms of sleep wake cycle



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15. Deficiency of I_2 in diet leads to



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16. Stunned growth of child during pregnancy
mental retardation, low intelligence quotient

is due to



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17. Hormone, responsible for basal metabolic rate is



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18. Hormone, responsible for raised level of Ca^{+2} in blood is



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19. Antagonist pair of hormone which regulate Ca^{+2} in blood are



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20. Hormone which play a major role is differentiation in T-Lymphocyte is



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21. Catecholamine which are secreted in emergency conditions are



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22. Main glucocorticoid hormone responsible for carbohydrate metabolism is



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23. Hormone which inhibit cellular uptake and utilisation of amino acid as well as does hyperglycemia through gluconeogenesis is



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24. Hormone of adrenal cortex which helps in maintaining electrolyte and body fluid volume is



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25. Hormone which enhance cellular uptake and utilisation of glucose as well as does hypoglycemia through glucogenesis is



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26. Male and female sex hormone respectively which stimulate development of sex organ, sexual behaviour, gametogenesis are



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27. Chemical nature of all the hormones which are secreted from pituitary and hypothalamus is



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28. Ca^{+2} , IP_3 , $C - AMP$ etc. are generated after binding of hormone on receptor present on membrane thus these are termed as



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29. Hormone which regulate gene expression or chromosome by interaction of hormone receptor complex with the genome are



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30. Endocrine glands lack ducts and are hence, called ____glands and their secretions are called_____



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31. _____posses very simple endocrine systems with few hormones whereas a large number of chemicals act as hormones and provide coordination in theh _____



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32. Hypothalamus is the basal part of _____



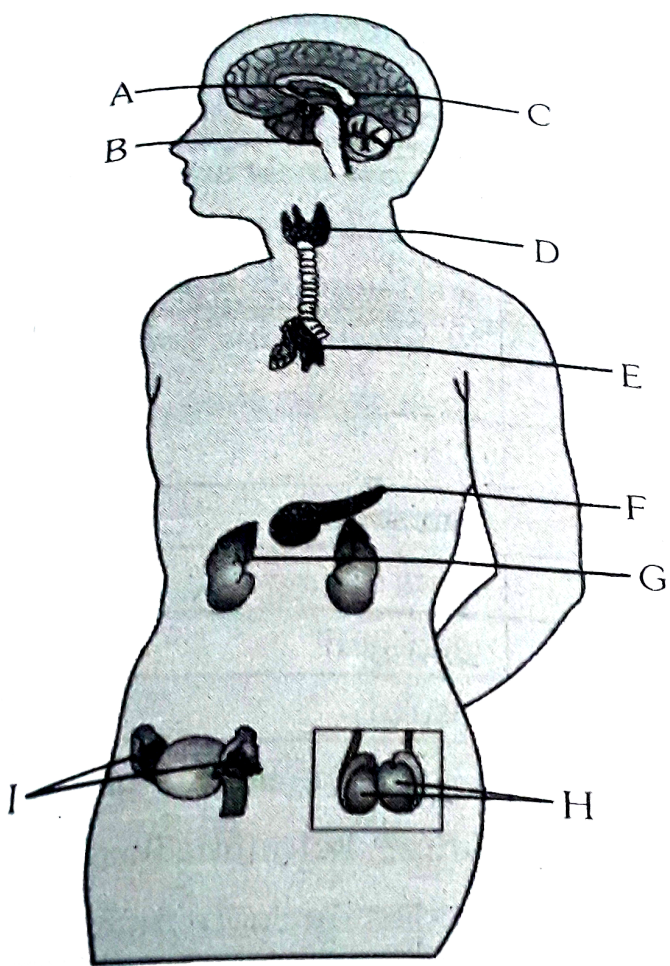
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33. Name the hypothalamic hormone which stimulates the pituitary synthesis and release of gonadotrophins



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34. Label A,B,C,D,E,F,G,H and I is the given diagram of location of endocrine glands



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35. Name the hormone which stimulates the synthesis and secretion of thyroid hormones from the thyroid gland.



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36. LH and FSH are called gonadotrophins. Why?



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37. Name the hormone which stimulates the synthesis and secretion of androgens from testis.



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38. What is the function of LH in females?

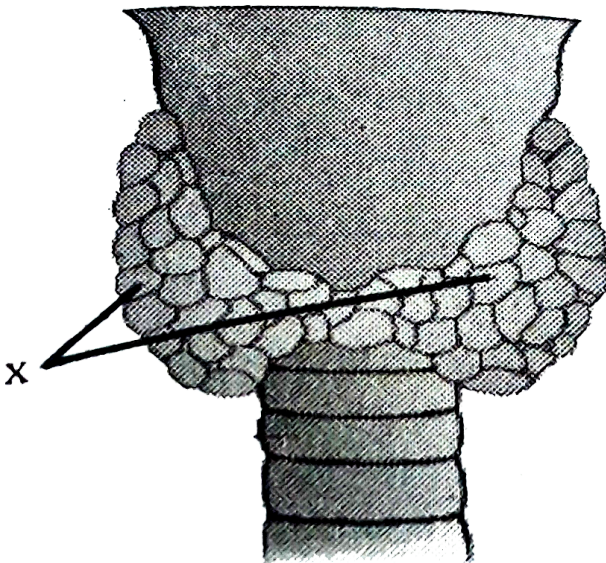


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39. name the hormone secreted by pars intermedia and its function.



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40.

(A) Name the gland shown in the diagram

(B) name the hormones secreted by this gland

(C) which element is essential for the normal rate of hormone synthesis in this gland?



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41. In adult women, ____ may cause menstrual cycle to become irregular



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42. I am a lobular structure located between lungs behind sternum on the ventral side of aorta and plays an important role in the development of the immune system. Identify me.



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43. Adrenaline and noradrenaline are called hormones. Why?



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44. The adrenal cortex can be divided into three layers, called ____ (inner layer), ____ (middle layer) and ____ (outer layer)



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45. Name the main mineralocorticoid in our body.



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46. Endocrine part of pancreas is called_____



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47. Alpha cells of islets of langerhans
secrete_____



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48. Beta cells of islets of langerhans
secrete_____



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49. Write some symptoms of diabetes mellitus.



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50. Name the hormone secreted by atria of heart which causes dilation of blood vessel and reduces blood pressure.



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51. The_____ of kidney produce a peptide hormone called____which stimulates_____.



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52. Name the hormone which increases the secretion of pepsinogen and hydrochloric acid from gastric glands.



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53. Which hormonal deficiency is responsible for the following?

(a) Diabetes mellitus

(b) Goitre

(c) Cretinism



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54. Match the column

	Column(A)		Column(B)
a	T4	i	Hypothalamus
b	PTH	ii	Thyroid
c	GnRH	iii	Pituitary
d	LH	iv	Parathyroid



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55. Fill in the blanks

Hormones

- (a) Hypothalamic hormones
- (b) Thyrotrophin (TSH)
- (c) Corticotrophin (ACTH)
- (d) Gonadotrophins (LH, FSH)
- (e) Melanotrophin (MSH)

Target gland



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