

Medicine

Endocrinology

Essay

Author: Rohini Ajay

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4. Chapter: Endocrinology Essay

1. Endocrinology Essay Questions

4.1.1. What is the difference between an endocrine gland and an exocrine g...

Author: Rohini Ajay

What is the difference between an endocrine gland and an exocrine gland?

Endocrine gland=secretes hormones ect.
Exocrine gland=has ducts

Check the answer of this question online at QuizOver.com:

Question: [What is the difference between an endocrine Rohini Ajay Endocrinology](#)

Flashcards:

<http://www.quizover.com/flashcards/question-what-is-the-difference-between-an-endocrine-rohini-ajay-endoc?pdf=1606>

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<http://www.quizover.com/question/question-what-is-the-difference-between-an-endocrine-rohini-ajay-endoc?pdf=1606>

4.1.2. Name the 3 endocrine organs of the brain.

Author: Rohini Ajay

Name the 3 endocrine organs of the brain.

Hypothalamus
Pituitary Gland
Pineal Gland

Check the answer of this question online at QuizOver.com:

Question: [Name the 3 endocrine organs of the brain. Rohini Ajay Endocrinology](#)

Flashcards:

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Interactive Question:

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4.1.3. List the precursors in the synthesis of adrenaline.

Author: Rohini Ajay

List the precursors in the synthesis of adrenaline.

L-Tyrosine--> DOPA (Dihydroxyphenylalanine) --> Dopamine --> Noradrenaline --> Adrenaline

Check the answer of this question online at QuizOver.com:

Question: [List the precursors in the synthesis of Rohini Ajay Endocrinology](#)

Flashcards:

<http://www.quizover.com/flashcards/question-list-the-precursors-in-the-synthesis-of-rohini-ajay-endocrino?pdf=1606>

Interactive Question:

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4.1.4. Draw the structure of pregnenolone.

Author: Rohini Ajay

Draw the structure of pregnenolone.

[***wellnessadvocate.com/images/Structural_Formulas/Pregnenolone_Synthesis_Structure-200.gif](http://www.wellnessadvocate.com/images/Structural_Formulas/Pregnenolone_Synthesis_Structure-200.gif)

Check the answer of this question online at QuizOver.com:

Question: [Draw the structure of pregnenolone. Rohini Ajay Endocrinology Test](#)

Flashcards:

<http://www.quizover.com/flashcards/question-draw-the-structure-of-pregnenolone-rohini-ajay-endocrinology?pdf=1606>

Interactive Question:

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4.1.5. Draw the HPA axis for cortisol

Author: Rohini Ajay

Draw the HPA axis for cortisol

See book.

Check the answer of this question online at QuizOver.com:

Question: [Draw the HPA axis for cortisol Rohini Ajay Endocrinology Test Quest](#)

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Interactive Question:

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4.1.6. Name one physiological effect of androgen and one consequence of it...

Author: Rohini Ajay

Name one physiological effect of androgen and one consequence of it in males.

Check the answer of this question online at QuizOver.com:

Question: [Name one physiological effect of androgen Rohini Ajay Endocrinology](#)

Flashcards:

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Interactive Question:

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4.1.7. Which hormone increases adenylyl cyclase activity in lactotrophs and ...

Author: Rohini Ajay

Which hormone increases adenylyl cyclase activity in lactotrophs and inhibit prolactin release.

Dopamine. Dopamine released from arcuate and paraventricular nuclei acts on D2 receptors to do this.

Check the answer of this question online at QuizOver.com:

Question: [Which hormone increases adenylyl cyclase activity Rohini Endocrinology](#)

Flashcards:

<http://www.quizover.com/flashcards/question-which-hormone-increases-adenylyl-cyclase-activity-rohini-endocr?pdf=1606>

Interactive Question:

<http://www.quizover.com/question/question-which-hormone-increases-adenylyl-cyclase-activity-rohini-endocr?pdf=1606>

4.1.8. Draw the feedback mechanism diagram of Growth Hormone.

Author: Rohini Ajay

Draw the feedback mechanism diagram of Growth Hormone.

See: [***bmb.leeds.ac.uk/illingworth/bioc2201/growth2.gif](http://bmb.leeds.ac.uk/illingworth/bioc2201/growth2.gif)
Or look in book.

Check the answer of this question online at QuizOver.com:

Question: [Draw the feedback mechanism diagram of Growth Rohini Endocrinology](#)

Flashcards:

<http://www.quizover.com/flashcards/question-draw-the-feedback-mechanism-diagram-of-growth-rohini-endocrin?pdf=1606>

Interactive Question:

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4.1.9. Which tissues and how does Growth Hormone signalling effect?

Author: Rohini Ajay

Which tissues and how does Growth Hormone signalling effect?

Muscle: GH= Increased protein synthesis + Decreased Glucose uptake

Bone: GH indirectly= osteoblast differentiation.

Adipose: GH and IGF-1 indirectly = increased lipolysis.

Check the answer of this question online at [QuizOver.com](http://www.quizover.com):

Question: [Which tissues and how does Growth Hormone Rohini Ajay Endocrinology](#)

Flashcards:

<http://www.quizover.com/flashcards/question-which-tissues-and-how-does-growth-hormone-rohini-ajay-endocri?pdf=1606>

Interactive Question:

<http://www.quizover.com/question/question-which-tissues-and-how-does-growth-hormone-rohini-ajay-endocri?pdf=1606>

4.1.10. Which part of the adrenal gland releases cortisol?

Author: Rohini Ajay

Which part of the adrenal gland releases cortisol?

Adrenal Cortex.

Check the answer of this question online at QuizOver.com:

Question: [Which part of the adrenal gland releases Rohini Ajay Endocrinology](#)

Flashcards:

<http://www.quizover.com/flashcards/question-which-part-of-the-adrenal-gland-releases-rohini-ajay-endocrin?pdf=1606>

Interactive Question:

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4.1.11. State in the adrenal cortex, ONE example each of the hormones secre...

Author: Rohini Ajay

State in the adrenal cortex, ONE example each of the hormones secreted by the:

- 1) Zona Glomerulosa
- 2) Zona Fasciculata
- 3) Zona Reticularis

- | |
|---|
| <ol style="list-style-type: none">1) Zona Glomerulosa = mineralcorticoids= aldosterone2) Zona Fasciculata = glucocorticoids = cortisol3) Zona Reticularis = sex steroids = testosterone |
|---|

Check the answer of this question online at QuizOver.com:

Question: [State in the adrenal cortex ONE example each Rohini Ajay Endocrinology](#)

Flashcards:

<http://www.quizover.com/flashcards/state-in-the-adrenal-cortex-one-example-each-rohini-ajay-endocrinology?pdf=1606>

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4.1.12. What is the main cause in the UK of Addison's disease a form of hyp...

Author: Rohini Ajay

What is the main cause in the UK of Addison's disease a form of hypoadrenalism?

Check the answer of this question online at QuizOver.com:

Question: [What is the main cause in the UK of Addison Rohini Ajay Endocrinology](#)

Flashcards:

<http://www.quizover.com/flashcards/question-what-is-the-main-cause-in-the-uk-of-addison-rohini-ajay-endoc?pdf=1606>

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<http://www.quizover.com/question/question-what-is-the-main-cause-in-the-uk-of-addison-rohini-ajay-endoc?pdf=1606>

4.1.13. Draw a labelled diagram to show what happens to an insulin secretin...

Author: Rohini Ajay

Draw a labelled diagram to show what happens to an insulin secreting beta-cell.

Check the answer of this question online at QuizOver.com:

Question: [Draw a labelled diagram to show what happens Rohini Ajay Endocrinology](#)

Flashcards:

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4.1.14. Name 2 things pre-pro-glucagon is cleaved into.

Author: Rohini Ajay

Name 2 things pre-pro-glucagon is cleaved into.

Glicentin, GRPP, Oxyntomodulin, Glucagon, GLP1, GLP2

Check the answer of this question online at QuizOver.com:

Question: [Name 2 things pre-pro-glucagon is cleaved Rohini Ajay Endocrinology](#)

Flashcards:

<http://www.quizover.com/flashcards/question-name-2-things-pre-pro-glucagon-is-cleaved-rohini-ajay-endocri?pdf=1606>

Interactive Question:

<http://www.quizover.com/question/question-name-2-things-pre-pro-glucagon-is-cleaved-rohini-ajay-endocri?pdf=1606>

4.1.15. Somatostatins are localised to the _____ cells of the islets of ...

Author: Rohini Ajay

Somatostatins are localised to the _____ cells of the islets of the pancreas.

Please choose only one answer:

- alpha
- beta
- delta
- PP

Check the answer of this question online at QuizOver.com:

Question: [Somatostatins are localised to the cells of Rohini Ajay Endocrinology](#)

Flashcards:

<http://www.quizover.com/flashcards/question-somatostatins-are-localised-to-the-cells-of-rohini-ajay-endoc?pdf=1606>

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4.1.16. At high concentrations of insulin the affinity the receptor has for...

Author: Rohini Ajay

At high concentrations of insulin the affinity the receptor has for the 2nd insulin molecule is _____ than the 1st and that is _____ cooperativity.

Please choose only one answer:

- higher, positive
- lower, negative
- lower, positive
- higher, negative

Check the answer of this question online at [QuizOver.com](http://www.quizover.com):

Question: [At high concentrations of insulin the affinity Rohini Endocrinology](#)

Flashcards:

<http://www.quizover.com/flashcards/question-at-high-concentrations-of-insulin-the-affinity-rohini-endocri?pdf=1606>

Interactive Question:

<http://www.quizover.com/question/question-at-high-concentrations-of-insulin-the-affinity-rohini-endocri?pdf=1606>

4.1.17. Hydroxamic acid and other such drugs may be targeted to _____ t...

Author: Rohini Ajay

Hydroxamic acid and other such drugs may be targeted to _____ to stop the breakdown of insulin and assist in diabetes.

Check the answer of this question online at QuizOver.com:

Question: [Insulin is broken down after use by . Rohini Ajay Endocrinology Quest](#)

Flashcards:

<http://www.quizover.com/flashcards/question-insulin-is-broken-down-after-use-by-rohini-ajay-endocrinology?pdf=1606>

Interactive Question:

<http://www.quizover.com/question/question-insulin-is-broken-down-after-use-by-rohini-ajay-endocrinology?pdf=1606>

4.1.18. Draw a diagram of the regulation and feedback mechanisms of glycoge...

Author: Rohini Ajay

Draw a diagram of the regulation and feedback mechanisms of glycogen SYNTHASE.

Check the answer of this question online at QuizOver.com:

Question: [Draw a diagram of the regulation and feedback Rohini Endocrinology](#)

Flashcards:

<http://www.quizover.com/flashcards/question-draw-a-diagram-of-the-regulation-and-feedback-rohini-endocrin?pdf=1606>

Interactive Question:

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4.1.19. The endocrine cells of the GI tract consists of parietal, endocrine...

Author: Rohini Ajay

The endocrine cells of the GI tract consists of parietal, endocrine and chief (zymogenic) cells. What do each secrete?

Parietal = Acid [For reaction with Pepsinogen to make Pepsin] Endocrine= Gastrin Chief = Pepsinogen

Check the answer of this question online at QuizOver.com:

Question: [The endocrine cells of the GI tract consists Rohini Ajay Endocrinology](#)

Flashcards:

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4.1.20. The C-peptide is a good measure of insulin levels. Why?

Author: Rohini Ajay

The C-peptide is a good measure of insulin levels. Why?

In the Pre-Pro- hormone precursor to insulin the C-peptide is cleaved for the active form of insulin before the A-chain and B-chain fold. Therefore measuring C-peptide shows an equal measure of insulin levels.

Check the answer of this question online at QuizOver.com:

Question: [The C-peptide is a good measure of insulin Rohini Ajay Endocrinology](#)

Flashcards:

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Interactive Question:

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4.1.21. What is the Incretin effect?

Author: Rohini Ajay

What is the Incretin effect?

Incretin effect: Beta-cells response to oral vs. IV Glucose. Enhancement of insulin by gut.

Can draw diagram to show this too.

Check the answer of this question online at QuizOver.com:

Question: [What is the Incretin effect Rohini Ajay Endocrinology Test Quest](#)

Flashcards:

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4.1.22. Which hormone released causes the neutralization of acidic chime/ch...

Author: Rohini Ajay

Which hormone released causes the neutralization of acidic chime/chyme?

Secretin.
Stimulating the pancreatic fluid and bicarbonate secretion.

Check the answer of this question online at QuizOver.com:

Question: [Ghrelin is the counter hormone of . Rohini Ajay Endocrinology Test](#)

Flashcards:

<http://www.quizover.com/flashcards/question-ghrelin-is-the-counter-hormone-of-rohini-ajay-endocrinology-t?pdf=1606>

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4.1.23. Name the 2 types of fat depots.

Author: Rohini Ajay

Name the 2 types of fat depots.

Visceral (/Omental)=around the organs=bad fat
Subcutaneous

Check the answer of this question online at QuizOver.com:

Question: [Name the 2 types of fat depots. Rohini Ajay Endocrinology Test Quest](#)

Flashcards:

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4.1.24. What is 'metabolic syndrome'?

Author: Rohini Ajay

What is 'metabolic syndrome'?

Insensitivity to Leptin, Insulin and changes to Adiponectin signalling.

Check the answer of this question online at QuizOver.com:

Question: [What is 'metabolic syndrome' Rohini Ajay Endocrinology Test Quest](#)

Flashcards:

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4.1.25. Name 3 things Brown Adipose Tissue as a secretary organ secretes.

Author: Rohini Ajay

Name 3 things Brown Adipose Tissue as a secretary organ secretes.

Autocrine: Basement Membrane Protein - e.g. collagen, IV, fibronectin, IGF 1 (Insulin-like Growth Factor), Adenosine.
Paracrine: Nerve Growth Factor (NGF), Vascular Endothelial Growth Factor (VEGF), Nitric Oxide (NO).
Endocrine: Leptin, Adiponectin, Fatty Acids.

Check the answer of this question online at QuizOver.com:

Question: [Name 3 things Brown Adipose Tissue as a Rohini Ajay Endocrinology](#)

Flashcards:

<http://www.quizover.com/flashcards/question-name-3-things-brown-adipose-tissue-as-a-rohini-ajay-endocrino?pdf=1606>

Interactive Question:

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4.1.26. Name 3 things Brown Adipose Tissue as a secretary organ secretes.

Author: Rohini Ajay

Name 3 things Brown Adipose Tissue as a secretary organ secretes.

Autocrine: Basement Membrane Protein - e.g. collagen, IV, fibronectin, IGF 1 (Insulin-like Growth Factor), Adenosine.
Paracrine: Nerve Growth Factor (NGF), Vascular Endothelial Growth Factor (VEGF), Nitric Oxide (NO).
Endocrine: Leptin, Adiponectin, Fatty Acids.

Check the answer of this question online at QuizOver.com:

Question: [Name 3 things Brown Adipose Tissue as a Rohini Ajay Endocrinology](#)

Flashcards:

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Interactive Question:

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4.1.27. Name the 3 main hormones that the thyroid gland secretes.

Author: Rohini Ajay

Name the 3 main hormones that the thyroid gland secretes.

T2, T4, Calcitonin.

Check the answer of this question online at QuizOver.com:

Question: [Name the 3 main hormones that the thyroid Rohini Ajay Endocrinology](#)

Flashcards:

<http://www.quizover.com/flashcards/question-name-the-3-main-hormones-that-the-thyroid-rohini-ajay-endocri?pdf=1606>

Interactive Question:

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4.1.28. Briefly outline the 6 stages of T3/T4 synthesis.

Author: Rohini Ajay

Briefly outline the 6 stages of T3/T4 synthesis.

- 1) Thyroglobulin synthesised
- 2) Uptake of the concentration of iodide (I⁻)
- 3) Oxidation of Iodide to Iodine
- 4) Iodination of thyroglobulin on tyrosine molecules
- 5) Coupling of 2 iodinate tyrosine molecules for T3/T4
- 6) Secretion.

Check the answer of this question online at QuizOver.com:

Question: [Briefly outline the 6 stages of T3/T4 synthesis Rohini Endocrinology](#)

Flashcards:

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4.1.29. Draw the synthesis of DIT (Di-iodotyrosine).

Author: Rohini Ajay

Draw the synthesis of DIT (Di-iodotyrosine).

Refer to book. Iodinated at positions C3 and C4)

Check the answer of this question online at QuizOver.com:

Question: [Draw the synthesis of DIT Di-iodotyrosine . Rohini Ajay Endocrinology](#)

Flashcards:

<http://www.quizover.com/flashcards/question-draw-the-synthesis-of-dit-di-iodotyrosine-rohini-ajay-endocrin?pdf=1606>

Interactive Question:

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4.1.30. Draw the complete synthesis of T3.

Author: Rohini Ajay

Draw the complete synthesis of T3.

- 1) Draw synthesis of MIT
- 2) Draw synthesis of DIT
- 3) Draw synthesis of them both joined together for T3 hormone.

Check the answer of this question online at QuizOver.com:

Question: [Draw the complete synthesis of T3. Rohini Ajay Endocrinology Test](#)

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4.1.31. List the deiodinase isotypes and their roles in converting T3/T4.

Author: Rohini Ajay

List the deiodinase isotypes and their roles in converting T3/T4.

ID1: On cell surface. Converts T4 to T3 or rT3
ID2: Intracellular. Converts T4 to T3 only.
ID3: Converts T3 to rT3. Converts T3 to T2
T2 and rT3= not active

Check the answer of this question online at [QuizOver.com](http://www.quizover.com):

Question: [List the deiodinase isotypes and their roles Rohini Ajay Endocrinology](#)

Flashcards:

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4.1.32. What can be the causes of Goitre in regard to T4 expression.

Author: Rohini Ajay

What can be the causes of Goitre in regard to T4 expression.

- 1) Iodined efficiency=too low levels of T4= induces TSH secretion
- 2) Graves disease=autoimmune disease that produces a thyroid stimulating immunoglobulin (TSI) that acts as TSH and binds to the TSH receptor= too high levels of T4

Check the answer of this question online at QuizOver.com:

Question: [What can be the causes of Goitre in regard Rohini Ajay Endocrinology](#)

Flashcards:

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Interactive Question:

<http://www.quizover.com/question/question-what-can-be-the-causes-of-goitre-in-regard-rohini-ajay-endocr?pdf=1606>

4.1.33. What can be the causes of Goitre in regard to T4 expression.

Author: Rohini Ajay

What can be the causes of Goitre in regard to T4 expression.

- 1) Iodined efficiency=too low levels of T4= induces TSH secretion
- 2) Graves disease=autoimmune disease that produces a thyroid stimulating immunoglobulin (TSI) that acts as TSH and binds to the TSH receptor= too high levels of T4
- 3) Tumours

Check the answer of this question online at [QuizOver.com](http://www.quizover.com):

Question: [What can be the causes of Goitre in regard Rohini Ajay Endocrinology](#)

Flashcards:

<http://www.quizover.com/flashcards/question-what-can-be-the-causes-of-goitre-in-regard-rohini-aja-3641063?pdf=1606>

Interactive Question:

<http://www.quizover.com/question/question-what-can-be-the-causes-of-goitre-in-regard-rohini-aja-3641063?pdf=1606>

4.1.34. What does low levels of PTH (parathyroid hormone) do to the action ...

Author: Rohini Ajay

What does low levels of PTH (parathyroid hormone) do to the action of the kidneys, gut and bone?

(In regards to both Ca^{2+} and phosphate).

In kidneys: Increases reabsorption of Ca^{2+} and phosphate
In gut: Increases absorption of Ca^{2+} and phosphate.
In bone: Releases phosphate in the bones, bone remodels to release Ca^{2+}

Check the answer of this question online at QuizOver.com:

Question: [What does low levels of PTH parathyroid Rohini Ajay Endocrinology](#)

Flashcards:

<http://www.quizover.com/flashcards/question-what-does-low-levels-of-ptth-parathyroid-rohini-ajay-endocrino?pdf=1606>

Interactive Question:

<http://www.quizover.com/question/question-what-does-low-levels-of-ptth-parathyroid-rohini-ajay-endocrino?pdf=1606>

4.1.35. What are the methods of absorbing Ca²⁺ from the gut?

Author: Rohini Ajay

What are the methods of absorbing Ca²⁺ from the gut?

- 1) Active uptake and extrusion. Ca²⁺ → TRPV6 → Ca²⁺-CaBP → Na⁺/Ca²⁺ ATP pump.
- 2) Transcellular transport. Ca²⁺ → Ca²⁺-CaBP → Ca²⁺ out into blood.
- 3) Endocytosis and exocytosis of Ca²⁺-CaBP complex. Ca²⁺ → TRPV6 → Ca²⁺-CaBP → Complex into vesicles → exocytosis.

CaBP=Calcium Binding Protein.
Vit. D3 drives transcription of TRPV6

Check the answer of this question online at QuizOver.com:

Question: [What are the methods of absorbing Ca2 from Rohini Ajay Endocrinology](#)

Flashcards:

<http://www.quizover.com/flashcards/question-what-are-the-methods-of-absorbing-ca2-from-rohini-ajay-endocr?pdf=1606>

Interactive Question:

<http://www.quizover.com/question/question-what-are-the-methods-of-absorbing-ca2-from-rohini-ajay-endocr?pdf=1606>

4.1.36. What is the major endocrine structure of the ovary?

Author: Rohini Ajay

What is the major endocrine structure of the ovary?

The follicle

Check the answer of this question online at QuizOver.com:

Question: [What is the major endocrine structure of the Rohini Ajay Endocrinology](#)

Flashcards:

<http://www.quizover.com/flashcards/what-is-the-major-endocrine-structure-of-the-rohini-ajay-endocrinology?pdf=1606>

Interactive Question:

<http://www.quizover.com/question/what-is-the-major-endocrine-structure-of-the-rohini-ajay-endocrinology?pdf=1606>

4.1.37. Briefly describe the 2 Cell Hypothesis of Oestrogen synthesis.

Author: Rohini Ajay

Briefly describe the 2 Cell Hypothesis of Oestrogen synthesis.

In the theca interstitial cell, LH is recognised by its GPCR. Adenylate cyclase is stimulated. The secondary messenger cAMP is produced leading to kinase A being upregulated and so more Androgen is produced from Cholesterol. This androgen is released into the blood circulation.
In the Granulosa Cell, FSH is recognised by its GPCR and stimulates Adenylate cyclase to produce its secondary messenger cAMP. This causes Protein kinase A to be upregulated. Protein kinase B is also upregulated. Androgen in the circulation is taken up by the Granulosa Cell. And upregulation from Protein Kinase A and B causes Androgen to be turned into Oestrogen which is released back into circulation.

Check the answer of this question online at QuizOver.com:

Question: [Briefly describe the 2 Cell Hypothesis of Rohini Ajay Endocrinology](#)

Flashcards:

<http://www.quizover.com/flashcards/question-briefly-describe-the-2-cell-hypothesis-of-rohini-ajay-endocri?pdf=1606>

Interactive Question:

<http://www.quizover.com/question/question-briefly-describe-the-2-cell-hypothesis-of-rohini-ajay-endocri?pdf=1606>

4.1.38. Why may cooperation from 2 different cells/tissues be good? (Such a...

Author: Rohini Ajay

Why may cooperation from 2 different cells/tissues be good? (Such as in the case of oestrogen biosynthesis)

It allows for better control of the biosynthesis by allowing the influence of different cells working independently.

Check the answer of this question online at QuizOver.com:

Question: [Why may cooperation from 2 different cells Rohini Ajay Endocrinology](#)

Flashcards:

<http://www.quizover.com/flashcards/question-why-may-cooperation-from-2-different-cells-rohini-ajay-endocr?pdf=1606>

Interactive Question:

<http://www.quizover.com/question/question-why-may-cooperation-from-2-different-cells-rohini-ajay-endocr?pdf=1606>

4.1.39. Give one of the roles of decidualisation in pregnancy.

Author: Rohini Ajay

Give one of the roles of decidualisation in pregnancy.

- Embryo selection
- Controls trophoblast invasion
- Haemostasis
- Immunomodulation (tolerates non-self cell)
- Oxidative Stress Defences (protects embryo).

Check the answer of this question online at QuizOver.com:

Question: [Give one of the roles of decidualisation in Rohini Ajay Endocrinology](#)

Flashcards:

<http://www.quizover.com/flashcards/question-give-one-of-the-roles-of-decidualisation-in-rohini-ajay-endoc?pdf=1606>

Interactive Question:

<http://www.quizover.com/question/question-give-one-of-the-roles-of-decidualisation-in-rohini-ajay-endoc?pdf=1606>

4.1.40. Outline the 4 stages of human parturition in reference to pregnancy...

Author: Rohini Ajay

Outline the 4 stages of human parturition in reference to pregnancy and labour.

Phase 0: Quiescence. Most=36 weeks of gestation. Hormones=progesterone, prostacyclin
Phase 1: Preparation for labour (activation). Uterotrophins= prostaglandins, oxytocin receptor, relaxin. Uterus is changing. Stage of Braxton-Higgs contractions.
Phase 2: Active labour (stimulation). Uterotonins= oxytocin, prostaglandins. Escalates rapidly under Ferguson reflex.
Phase 3: Involution. Uterotonins=oxytocin, prostaglandins. Uterus contracts down. Large womb is closed up. Tissue remodelling.

Check the answer of this question online at QuizOver.com:

Question: [Outline the 4 stages of human parturition in Rohini Ajay Endocrinology](#)

Flashcards:

<http://www.quizover.com/flashcards/outline-the-4-stages-of-human-parturition-in-rohini-ajay-endocrinology?pdf=1606>

Interactive Question:

<http://www.quizover.com/question/outline-the-4-stages-of-human-parturition-in-rohini-ajay-endocrinology?pdf=1606>

4.1.41. Describe the Ferguson reflex.

Author: Rohini Ajay

Describe the Ferguson reflex.

Ferguson reflex to induce labour and is a positive feedback loop. Oxytocin released, activates GPCR, Ca²⁺ influx=depolarisation and mechanical stretch of cervix=feedback to pituitary. Induces more oxytocin release. And so forth until delivery of baby.

Check the answer of this question online at QuizOver.com:

Question: [Describe the Ferguson reflex. Rohini Ajay Endocrinology Test Quest](#)

Flashcards:

<http://www.quizover.com/flashcards/question-describe-the-ferguson-reflex-rohini-ajay-endocrinology-test-q?pdf=1606>

Interactive Question:

<http://www.quizover.com/question/question-describe-the-ferguson-reflex-rohini-ajay-endocrinology-test-q?pdf=1606>