ENDOCRINE SYSTEM ROUH- FINAL

Done BY: Shaimaa Ababneh





Pharmacology 1. Hyperprolactinemia is ? **Bromocriptine** 2. Duration of rapid insulin? A. 10 min B. 20 min C. 10 sec D. 30 min E. 20 sec Answer:A 3. which of the following is wrong about rapid action insulin: A. soluble form B. given SC, IM, IV C. its action begins within 10 mins D. for controllong DM E. given in cases of diabetic ketoacidosis Answer:C 4. Which of the following not produce by anterior pituitary? A. TSH B. FSH C. GH D. Prolactin Answer:E E. ADH 5. Which of the following not secreted by anterior pituitary? איי פינעף אף A. TSH B. ACTH C. FSH D. Oxytocin

E.PRL

Answer: D

6.A 40 years old pregnant woman has a sugar craving, Her serum glucose increases which cause release of insulin which is known to increase the activity of acetyl Co carboxylase, the rate limiting step in fatty acid biosynthesis. Which of the following best describes this regulatory enzyme? Metabolis Filty acid

Select one:

- A. It catalyzes a reaction that requires biotin and ATP
- B. It is activated by malonyl COA
- C. It catalyzes a reaction that condenses acetyl group with malonyl group
- D. It is activated by carboxylation

E.It converts malonyl CoA to acetyl CoA

Answer:A

7. The final product for complete oxidation of odd chain fatty acids yields which of the following? Metabolis a Fally acid

Select one:

- A. Acetyl CoA and propionyl COA
- B. Acetyl CoA only
- C. Succinyl COA
- D. Propionyl CoA only
- E. Palmitoyl CoA

Answer:A

- 8.H2 connect with H3 by? Bodien 2
 - A. C1
 - B. C2
 - C. E1
 - D. E2
 - E. E3

Answer: C

9. False about medullary carcinoma? Q 3th ol 077 A. Associated with pituitary adenoma Answer:A B. Flushing and diarrhea 10. The hypothalamo - hypophysial portal system carries hormones from the? Histology Select one: A. Brain to thyroid gland B. Anterior pituitary to the hypothalamus C. Hypothalamus to the posterior pituitary Answer:E D. Posterior pituitary to the hypothalamus E. Hypothalamus to the anterior pituitary 11) the origin of adrenal cortex is: A. endoderm B. neuroectoderm Answer:C C. ceolomic epithelium D. surface ectoderm 12) the cause of presence of craniopharyngeal canal: A. failure of degeneration of thyroglossal duct B. Failure of degeneration of the rathk's pouch Answer:B C. anterior pituitary is on upper oropharynx 13. All true except related to colloid? History A. Iodination occur inside lumen B. In parathyroid cell Answer:B 14. Conn disease? Phy Ji of og y 7 A. Hyperkalemia and hypertension B. Hypocalcemia and hypotension

Answer:C

C. Hypokalemia and hypertension

15. which structure related to pituitary gland superiorly? analogy

- A. Diaphragm sella
- B. Intercavernous sinuses.
- C. Cavernous sinus
- D. Dorsum sellae
- E. Sphenoida l airsinuses.

Answer:A

16.predominantly mineralocorticoids? Phara 5

- A. Betamethasone
- B. cotison
- C. Triamcinolone
- D. Fludrocortisone

Answer:D

17. which enzyme used to diagnosis thiamin deficiency? metabolism PPP

- A. Transaldose
- B. Transketolase

Answer:B

- 18. If a woman hears her baby cry, she may experience milk ejection from the nipples even before the baby is placed to the breast. What is the explanation for this? For solary
- A. The sound of the hungry baby's cry elicits secretion of oxytocin from the posterior pituitary, which reaches the breast and causes contraction of the myoepithelial cells
- B. The sound of the hungry baby 's cry causes a reflex relaxation of the myoepithelial cells, allowing the milk to flow
- C. The sound of the hungry baby 's cry elicits a surge of prolactin from the anterior pituitary, which promptly stimulates milk production from the breast.
- D.The sound of the hungry baby 's cry elicits sympathetic nervous system discharge that causes contraction of the myoepithelial cell

Answer:A

19. according to accelerated atherosclerosis all is true except(Mechanisms for vascular disease in diabetes ALL True except? Athol 29 y P A. impaired vasodilatory response attributable to nitric oxide inhibition B. smooth muscle cell dysfunction C. Decrease of endothelial growth factors. Answer:C 20. Defined of diabetes insipidus? A) large amount of dilute urine 21. The glycolysis and gluconeogenesis linked by which enzyme? Metabolis a A. Phosphoglycerate kinase B. hexokinase C. pyruvate kinase D. PFK -2/FBPase-2 Answer:D 22. the enzyme that regulates glycoly ext/gluconeogenesis positively (39. Enzyme/s is considered as a positive regulator for both Metabolism 6 lycoly 51 s 2 glycolysis/gloconeogensis?) A. Phosphoglycerate kinase B. hexokinase C. pyruvate kinase Answer:D D. PFK -2/FBPase-2 23. ALL these sentences related to drug used to treatment osteoporosis except? Pharacology 7

Anguar"

A. Estrogen enhance PTH

B.Alendronate

24. in glucogenolysis and glucogenesis the enzyme used in both is ? Mel-bolis ~ A. Phosphoglucomutase B. Pyruvate kinase Answer::A 25. carbohydrate and fat metabolism linked by? Metabolism gy coly sis 2 A. DHAP B. 1.3Bisphosoglucerate Answer:A 26. side effect of rhGH? Phr (col) 1-2 A) Acromegaly 27. hypercalcemia all true except? (hy 5; 0) = 3 5 A. diuresis with a loop diuretic such as furosemide B. Bisphosphonates C. Phosphate Answer::D D. 1,25 (OH)2 D (calcitriol) E. Rehydration with saline solution 28. Adrenal gland anatomy? A) Right adrenal is related to cealomic ganglion medially 29. Antimycin A block between cytochrome c, then? Metabolisa ETC A) Inhibition of all ATP synthesis 30. NADH complex site blockage, what heppens to P:O ratio generated by fatty acyl Co? Metabolism ETC A) The same energy generated by normal fatty acyl co 31. Enzymes in heptobiliary diseases? Metabolisa lary ac A) Nucleotidase 5 and Alkaline phosphatase*

- 32. What is wrong about cholinesterase? Metabolin Enzyme
- V

- A) Used in liver function test
- 33. Wrong about pyruvate carboxylase? Metabolis on livebs
- A) Its action in inner mitochondrial space
- 34. All of the following are inhibitors of glutamate dehydrogenase except? Melabolism
- A) ADP*
- 35. True about prostacyclin PGI2? Metaboli sa Sicosanid
- A) Its action opposed by TXA2
- 36. Glucagon and epinephrin action in liver? Biochem 8
- A) Activate glycogen phosphorelase, inhibit glycogen synthase*
- 37. Cox 1/PGHS 1 needs? Metabolism Bicos and
- A) Gamma glutamyl cysteine glycine*
- 38. Why does muscle use PPP pathway in little amount? Met abolis ~ PPP
- A) No dehydrogenaes in the muscles*
- 39. NAPH is generated by action of? Metabolis ~ PPP
- A) Glucose_6_phosphate deyhdrogenase*
- 40. Enzyme act on bothpathways glycogensis and glycogenolysis? Metabolism 6 lycelysis 2
- A) Phosphoglucomutase
- 41. The strongest stimulus on aldosterone?
- A. Low blood pressure
- B. Hyperkalemia

Answer:A

- 42. increase of steroid cause all of the following except ?
- A) Hypotension
- 43. Which of the following is not involved in regulation of plasma Ca++ levels? Phy 5:00 27 6
- **A.Kidneys**
- **B.Skin**
- C. Liver
- **D.**Intestine

Answer::E

- E. Lungs
- 44. If we remove hormone's receptor from organs what happens? Birchem 1

A.continue responding to hormone without any change

B.continue responding to hormones but randomly

C. no response to hormones

Answer:C

D.continue responding to hormones but need more concentration

Pharmacology 6

- 45) a female patient of 36 age years old, is suffering from severe pain and inflammation. Her doctor has prescribed for her prednisone as pain management, noting that she already has other medications for that purpose. Prednisone tablets are likely to be consumed at all after 2 months of use. What will happen if the patient is unable to refill her prescription?
- A. cardiovascular collapse (adrenal crisis)
- B. risk of infection
- C. insomnia
- D. osteoporosis
- E. fatigue

Answer::A



8. den 2 46. The wrong about IP3 is:

- A. a second messenger
- B. contain 3 posphate groups
- C. it is inositol 1,4,5-phosphate
- D. bind to IP3 gated channels on cell membrane

Answer:D

47. All of the following can treat hypercalcemia except: Photocology 7

- A. calcitonin
- B. furosemide
- C. rehydration with saline
- D. alendronate
- E. all of the above

Answer:E

Bochem 2

48) what happens when the binding of hormone to plasma proteins increase?

- A. increasing the negative feedback inhibition on releasing hormones
- B. increases the action resulted from hormone
- C. reduces half life of hormone
- D. increases renal excretion of hormone
- E. incresase store of active form for quick replineshment

Answer:E



49) which of the following is not an indication for mecasermin?

- A. acromegaly
- B. chronic renal failure
- C. pradder willi syndrome
- D. terber syndrome
- E. idiopathic short stature



50) all of the following occurs with corticosteroids except: Pharmacol of	27
A) hirsutism	
B) Hypotension	
C) virilization	Answer:B
D) striated abdomen	
51)PGHS/COX utilizes for synthesis of PGH2 Metabolism	ticosanoid
A) glutamate	
B) glycine	^ ^
C) gamma glutamyl cysteinyl glycine	Answer:C
D) gamma glutamyl cysteine	
E) byutric acid	
52)a patient with defective NADH dehydrogenase of ETC is now	
depending on fatty acyl utilization for the production. What is the	
correct change regarding P/O ratio? Melabolisa ETC	
A) decrease by 1 value	
B) remains constant(zero)	Answer:B
C) increase by 1 value	d. iawzi ia
D) no energy production at all	
53)a patient is poisoned with antimycin A that inhibits cytochrome c	of
ETC, what changes occur to energy production? Metabolisa ETC	
A) no energy production at all	
B) energy is produced in less amounts	
C) energy is produced in slower rate	
D) energy is produced for short period of time	
E) energy production is not affected due to increased rates of ETC	Answer::A

54)thyrocalcitonin is secreted by:

W

- A) anterior pituitary
- B) hypothalamus
 - C) thyroid
- D) parathyroid
- E) adrenal

Answer::C

55) which of the following is incorrectly matched? Qahdoggy 2

- A) hashimoto = oncocytic change
- B) de quervain thyroiditis = preserved follicular epithelium with dense lymphocytic infiltrate **

Answer:B

- 56) Why is pentose phosphate pathway is not processed in muscular tissues? Melbolin
- A) muscle do not need NADPH for their activity
- B) muscles do not requir the produced pentoses
- C) muscles have small amount of non-oxidative phase of the pathway
 - D) muscles have small number of dehydrogenases

Answer::D

- 57) The DNA binding domain? كان لازم) except) كن هده الم
- A. mediates dimerization
- B. Contain zink finger motifs if 10-20 a.a
- C. have the nuclear localization signal which recruits coactivator
- D. stabilize binding HRE to the receptor

Answer::C

58)Conn disease is: Py 550 77

- A. Diabetes Insipidus which release a large of concentrated urine
- B. Diabetes Insipidus which release a large of diluted urine

Answer::B

59) The goiter: Mathology 2

Aincrease the function of thyroid gland

B. increase the size of thyroid gland *

C. increase the function and size of thyroid gland

Answer:B

- 60) Which of the following doesn't need plasma protein:
- A. dopamine
- B. progesterone
- C. vitamins D

Answer:A

D.monoiodotyrosine

- 61) The wrong about adrenal gland: Ligh 1997
- A.has Chromaffin cells
- B. spinal ganglion cells

C. Lymphocyte like cells

Answer:B

D.highly blood vessel

62) Which of the following about suprarenal gland is correct:

A. The left gland relates medially to celiac ganglion.

Answer:A

B.the posterior surface of right gland relates to IVF

- 63) The muscles that cover thyroid gland:
- A. Sternothyiod, sternohyiod
- B. thyrohyoid & sternothyroid

Answer::A



- 64) All stimulation ADH except?
- A) Alcohol



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65) What is wrong about the mechanism of action of insulin?
Increaed Intracellular ATP activates ATP sensitive pottassium pump *
66) All of the following are therpeutic uses of insulin except? Therma cology T
A.Hypokalemia
B.Hperkalemia
                                                                        Answer:
67) Insulin deficiency causes?
Increaed ketogenesis
68)Wrong about estrogen receptors? אול פיל פולעין
Bind to direct repeats
69)All of the following are differences between aldolase a and aldolase b
except? Metabolia 17
A. Theyare used in splitting, condensation reaction ( الصياغه غير دقيقه
B. tissue
                                                                       Answer: A
C. substrate
D. product
E.the way of act
 Metabolism ETC
70) DIFFERENCES In ATP production is due to?
A.Shuttling of NADH molecules
Actabolism 6 lycolysis 2
71) Which of following is true about acetyl coA formation?
A) Pyruvate is oxidized by oxidizing agent NaD+*
( مش اکید )
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- 72)All of the following are correct about diabetes except? @ munity
- A) Both patients of diabetes type 1 and 2 should screen about complication a the time of diagnosis
- 73) Which of following is diagnostic of threshold of diabetes?
- A) Fasting glucose _> 140
- 74)According to America's commite of diabetes which of the following is used to confirm prediabetes?
- A) Glycated haemoglobin >5.7 <6.4*
- 75) What is the most potent stimulator of aldosterone? Phy 5: 61 0 1
- A) Hyperkalemia
- 76) All are Adverse effect of antithyroid drugs except? Pharacology
- A) Myalagia
- 77)All of the following is affected by inhibitory and stimulatory hormones of hypothalamus except? The Jiale Jiale
- A) Thyrtotropic hormones
- hysidigg 3 78)Baby cry causes?
 - A) Incresead secretion of oxytocin

