

Athar

Endocrine Mid

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1. All of the following have the same reaction except :

- A- Tolbutamide.
- B- Chlorpropamide.
- C- Repaglinide.
- D- Gliclazide.
- E- Pioglitazone.

Answer: E

2. One of the following is incorrect regarding metformin :

- A- Modest weight loss.
- B- Decrease glucose absorption from gut.
- C- Not protein bounded, excreted unchanged.
- D- Can be given in hepatic and renal failure.
- E- Decrease cardiovascular complications of diabetes mellitus.

Answer: D

3. Which of the following eicosanoids cause vasoconstriction :

- A- LTD₄ , LTE₄.
- B- PGE₂ , LTD₄.
- C- PGI₂ , PGE₂.
- D- LTB₄ , TXA₂.

Answer: A

4. Most regulatory and rate limiting step in glycolysis mediated by :

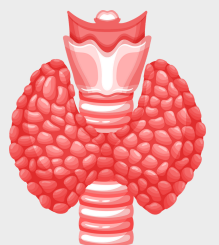
- A- Hexokinase.
- B- Pyruvate kinase.
- C- PFK-1.
- D- PFK-2.

Answer: C

5. Nuclear localization signal domain important for :

- A- Recognition of HRE.
- B- Link between LBD and DBD.
- C- Coactivators to E domain.
- D- Directing the hormone/receptor complex to HRE.

Answer: D



6. The enzyme that allosterically inhibited by accumulation of its own product is :

- A- Hexokinase.
- B- Glucokinase.
- C- PFK-1.
- D- Pyruvate kinase.
- E- PFK-2.

Answer: A

7. Which of the following contain 19 carbon atoms :

- A- Testosterone.
- B- Estrogen.
- C- Progesterone.
- D- Mineralocorticoid.
- E- Cortisol.

Answer: A

8. Steroid hormone that response for regulate blood glucose :

- A- Aldosterone.
- B- Estradiol.
- C- Cortisol.
- D- Testosterone.
- E- Progesterone.

Answer: C

9. Which of the following inhibit growth hormone secretion from hypothalamus :

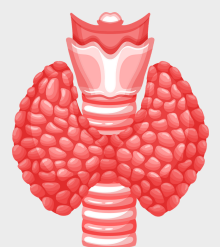
- A- Stress.
- B- Starvation.
- C- Hypoglycemia.
- D- Sleep.
- E- Somatomedin.

Answer: E

10. All of the following are symptoms due to hyperprolactinemia in male except :

- A- Increase libido.
- B- Impotence.
- C- Erectile dysfunction.
- D- Oligozoospermia.
- E- Galactorrhea.

Answer: A



11. The most potent mineralocorticoid is :

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

Answer: D

12. All of the following is associated with hyperthyroidism except :

- A- Granulomatous thyroiditis.
- B- Thyroxin intake.
- C- Ovarian teratoma with thyroid.
- D- Pituitary adenoma.

Answer: D

13. Which of these response to convert dopa to norepinephrine respectively :

- A- Tyrosine hydroxylase , aromatic amino acid decarboxylase.
- B- Tyrosine hydroxylase , dopamine beta hydroxylase.
- C- Aromatic amino acid decarboxylase , dopamine beta hydroxylase.
- D- Dopamine beta hydroxylase , N-methyltransferase.
- E- Aromatic amino acid decarboxylase , N-methyltransferase.

Answer: C

14. One of the following is not a therapeutic use of octreotide :

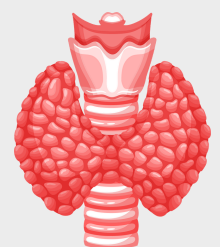
- A- Acromegaly.
- B- Diabetic diarrhea.
- C- Hyperkalemia.
- D- Carcinoid syndrome.
- E- Gastrinoma.

Answer: C

15. One of the following will inhibit prolactin secretion :

- A- Bromocriptine.
- B- Ganirelix.
- C- Gonadorelin.
- D- Growth hormone.
- E- Leuprolide.

Answer: A



16. One of the following could be found in post menopausal urine :

- A- Goserelin.
- B- Nafarelin.
- C- Pregolid.
- D- Urofollitropin.

Answer: D

17. One of the following is incorrect about anti thyroid drugs :

- A- Carbimazole prevent binding of iodine to tyrosine to form iodotyrosines.
- B- Carbimazole prevents coupling of iodotyrosines to form H.
- C- Agranulocytosis & thrombocytopenia is common idiosyncratic adverse effect to carbimazole.
- D- Propylthiouracil is preferable in pregnancy.
- E- Propylthiouracil only inhibits peripheral metabolism of T4 to T3.

Answer: E

18. One of the following mineralocorticoids receptor blocker will not cause menstrual abnormalities :

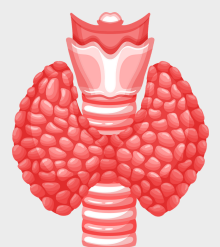
- A- Spironolactone.
- B- Eplerenone.
- C- Aldosterone.
- D- Amiloride.
- E- Triamterene.

Answer: B

19. One of the following is not a pharmacological effect of glucocorticoid in blood :

- A- Decrease lymphocytes.
- B- Increase erythrocytes.
- C- Decrease neutrophils.
- D- Increase plasma lipids.
- E- Increase coagulation factors.

Answer: C



20. A woman visits her doctor due to severe inflammation and is prescribed prednisolone to manage her condition. After a few days of taking the medication, she falls and break her hip bone. What is the most likely cause of her fracture :

- A- Increased muscle strength.
- B- Enhanced bone density.
- C- Inhibit bone formation.
- D- Improved balance.
- E- Enhanced calcium absorption.

Answer: C

21. Blood supply of upper parathyroid gland from :

- A- Superior thyroid artery.
- B- Inferior thyroid artery.
- C- External carotid artery.
- D- Internal carotid artery.

Answer: B

22. Posterior relation of left adrenal gland, one of the following is correct :

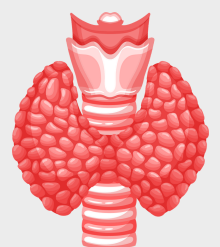
- A- Liver.
- B- lesser sac of stomach.
- C- Pancreas.
- D- Splenic vessels.
- E- Left crus of diaphragm.

Answer: E

23. Which of these is an APUD cell :

- A- Parafollicular.
- B- Gonadotroph.
- C- Oxyphil.
- D- Corticotroph.

Answer: A



24. One of the following statement is correct regarding melatonin :

- A- Secreted from anterior pituitary.
- B- Increase in darkness.
- C- Inhibited by adrenaline from sympathetic nervous system.
- D- Suppresses neuromuscular activity.
- E- Stimulate the onset of puberty.

Answer: B

25. One of the following is incorrect regarding herring bodies :

- A- Stored in dilated terminal ends.
- B- Transmit supraoptic and paraventricular nuclei secretion.
- C- Transmitted through myelinated axons.
- D- Transmit secretion through hypothalamo-hypophyseal tract.

Answer: C

26. What is the origin of parafollicular cells :

- A- 1st pharyngeal arch.
- B- Mesoderm.
- C- Neural crest.
- D- Ultimobranchial bodies.

Answer: D

27. All of the following increase after taking glucocorticoid except :

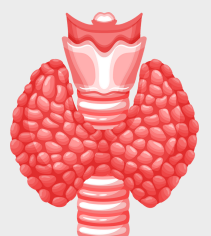
- A- Histamine.
- B- Blood pressure.
- C- Glucose.
- D- Plasma lipids.

Answer: A

28. One of the following is incorrect regarding criteria for the diagnosis of diabetes mellitus :

- A- Fasting glucose more than 126.
- B- 2h plasma glucose more than 200.
- C- Classic diabetes symptoms and random plasma glucose more than 200.
- D- Diagnosed at glucose cut-off points that are higher than those for diabetes mellitus.

Answer: D



29. Which of these enzymes is stereospecific :

- A- Isocitrate dehydrogenase.
- B- G6P Dehydrogenase.
- C- Fumarase.
- D- Pyruvate carboxylase.

Answer: C

30. The biomarkers which used in acute pancreatitis, cholestasis and urinary bladder cancer :

- A- Amylase, ALP and beta glucorindase.
- B- Streptokinase, ALP and beta glucorindase.
- C- Amylase, beta glucorindase and ALP.
- D- Lipase, AST and beta glucorindase.
- E- Streptokinase, AST and beta glucorindase.

Answer: A

31. To differentiate the diagnosis of biliary obstruction from bone disease, ALP used with :

- A- AST.
- B- CK.
- C- LDH.
- D- GGT.

Answer: D

32. Maple syrup urine disease result from defect in :

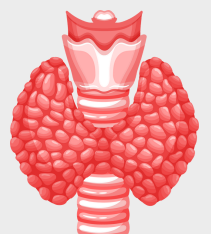
- A- Tyrosinase.
- B- Alpha keto acid dehydrogenase.
- C- Arginase.
- D- Methylmalonyl CoA mutase.

Answer: B

33. Which of the following inhibits insulin release :

- A- Glucagon.
- B- Epinephrine.
- C- Thyroxine.
- D- Testosterone.
- E- Melatonin.

Answer: B



34. Which of the following stimulate release of ADH :

- A- Decrease osmolarity which stimulate osmoreceptor.
- B- Increase osmolarity which Inhibit osmoreceptor.
- C- Hemorrhage is the most potent stimulus.
- D- Alcohol consumption.

Answer: C

35. All of the following affect by Inhibitory and stimulatory hormones of hypothalamus except :

- A- Prolactin.
- B- TSH.
- C- MSH.
- D- LH.
- E- FSH.

Answer: C

36. Which of the following statement is correct about tyrosine kinase receptors :

- A- GRB2 binds to SOS with in turn interacts with the active ras.
- B- The first level of termination signals is degradation of the 2nd messenger.
- C- Ras is connected to the membrane by lipid anchor.
- D- SOS dissociation of GDP from adapter protein.
- E- Dimerization is not necessary to activate the receptor.

Answer: C

37. Which is correct about connection between hypothalamus and pituitary gland :

- A- Vascular connection between hypothalamus and anterior pituitary in the form of hypothalamo-hypophyseal tract.
- B- Vascular connection between hypothalamus and anterior pituitary in the form of hypothalamo-hypophyseal portal circulation.
- C- Nervous connection between hypothalamus and anterior pituitary in the form of hypothalamo-hypophyseal portal circulation.
- D- Vascular connection between hypothalamus and posterior pituitary in the form of hypothalamo-hypophyseal tract.
- E- Nervous connection between hypothalamus and posterior pituitary in the form of Hypothalamo-hypophyseal portal circulation.

Answer: B

38. All of the following are link between carbohydrate and fatty acid except :

- A- DHAP.
- B- GAP.
- C- Acetyl CoA.
- D- Phosphoenolpyruvate

Answer: D

39. Which of the following mineralocorticoid drugs does not cause menstrual irregularities :

- A- Spironolactone.
- B- Eplerenone.
- C- Finerenone.
- D- Amiloride.
- E- Triamterene.

Answer: B

40. One of the following is correct about function of parathyroid hormone :

- A- Increase calcium reabsorbtion from distal renal tubule.
- B- Decrease phosphate reabsorbtion from distal renal tubule.

Answer: A

41. Deficiency in 11-beta hydroxylase can lead to :

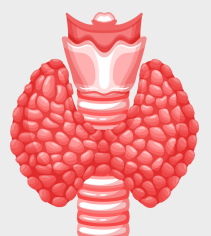
- A- Decrease in aldosterone and cortisol.
- B- Salt wasting hypotension.
- C- Decrease renin.
- D- Decrease in aldosterone only.

Answer: D

42. The effector protein of diacylglycerol is :

- A- Phospholipase C.
- B- Guanyly cyclase.
- C- Phosphatidylinositol.
- D- Protein kinase C.

Answer: A



43. Function of thiolase enzyme is :

- Cleavage of the bond between alpha acyl Co-A and beta acyl Co-A.

