

ENDOCRINE

FINAL ARCHIVE

Done by:-

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Questions:

1) Which enzyme is responsible for the formation of urea?

- A. Carbamoyl phosphate synthetase
- B. Argininosuccinate synthetase
- C. Argininosuccinate lyase
- D. Arginase

Ans d

2) Defective enzyme in Alkaptonuria (dark pigment in urine) is:

- A) Homogentisate oxidase
- B) Phenylalanine hydroxylase
- C) Tyrosinase
- D) Fumarylacetoacetate hydrolase

Ans :A

3) Which one of the following is correct about type 2 Diabetes mellitus?

- A. percentage as 5% of cases
- B. happen only in adult
- C. insulin resistance and progressive beta cell failure
- D. No presence of insulin
- E. No answer is correct

Answer is: c

4) One of the following is true about criteria for diagnosis diabetes:

- A. Fasting plasma glucose ≥ 140
- B. Fasting plasma glucose ≥ 120
- C. Random glucose ≥ 120

Ans: A

ملاحظة:

هكذا كانت الخيارات داخل الامتحان، علماً أن الأصح هو ما ذكر داخل السلايدات
(Fasting plasma ≥ 126)



Questions:

5) All of the following are therapeutic uses of vitD except:

- A. Rickets
- B. Osteomalacia in chronic renal failure
- C. Psoriasis
- D. Hyperthyroidism

Ans: D

6) Which of the following is NOT found in the neurohypophysis?

- A. Herring body
- B. Pituicyte
- C. Astrocyte
- D. Axons
- E. Nerve fiber

Answer: C

7) After aldolase cleaves a six-carbon sugar, which product contains carbons (1-3)?

- A) Dihydroxyacetone phosphate (DHAP)
- B) Glyceraldehyde-3-phosphate (G3P)
- C) Fructose-6-phosphate
- D) Glucose-6-phosphate

Ans: A

8) Which of the following is recommended for the prevention of type 2 diabetes?

- A. Losing 2-3% of their body weight
- B. High fat and dietary sugar
- C. Getting 150 minutes of physical activity a week
- D. Running form of exercises

Answer: C



Questions:

9) Which of the following is NOT a pathological effect associated with diabetic macrovascular disease?

- A. glycation end product accumulation
- B. Overproduction of NO
- C. smooth muscle cell dysfunction
- D. overproduction of endothelial growth factors
- E. chronic inflammation

Answer: B

10) Which enzyme functions in both the Krebs cycle and the electron transport chain?

- A. Succinate dehydrogenase
- B. Citrate synthase
- C. Isocitrate dehydrogenase
- D. Aconitase
- E. Pyruvate dehydrogenase

Answer: A

11) The infundibulum projects downward from:

- A) Floor of diencephalon
- B) Roof of diencephalon
- C) Lateral wall of diencephalon
- D) Floor of mesencephalon
- E) Roof of mesencephalon

Ans: A

12) Failure of descent of the thyroid gland results in:

- A) Lingual thyroid
- B) Ectopic parathyroid
- C) Thyroglossal duct cyst
- D) Submandibular thyroid
- E) Goiter

Ans : A



Questions:

13)The lateral relations of the pituitary gland include:

- A) Body of sphenoid bone / sphenoid sinus
- B) Diaphragma sellae
- C) Cavernous sinus
- D) Optic chiasm

Ans: C

14)The right suprarenal vein drains into:

- A) Inferior vena cava (IVC)
- B) Left renal vein
- C) Hepatic vein
- D) Portal vein
- E) Superior mesenteric vein

Ans: A

15)Wich one of the following is uncorrect about anterior relation of left adrenal gland?

- A.stomach
- B.lessor sac
- C.splenic
- D.body of pancreas
- E. Bare area

Answer is : e

16)The middle suprarenal (adrenal) artery arises from:

- A) Renal artery
- B) Abdominal aorta
- C) Inferior phrenic artery
- D) Celiac trunk
- E) Superior mesenteric artery

Ans : b



Questions:

17) The main artery supplying the parathyroid glands is:

- A) Superior thyroid artery
- B) Inferior thyroid artery
- C) Thyroidea ima artery
- D) Carotid artery
- E) Lingual artery

Ans: B

18) After taking a glucose, glucagon secretion will be suppressed by which mechanism?

- A. Inhibition of alpha cells
- B. Activation of beta cells
- C. Inhibition of beta cells
- D. Activation of alpha cells

Ans: B

ملاحظة:

بعد تناول الغلوكوز:

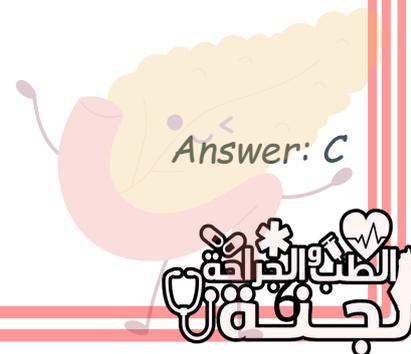
- في البنكرياس (β -cells) في الدم يرتفع \rightarrow هذا ينشط خلايا بيتا $glucose$ مستوى الـ.
- وهذه تعمل على تثبيط إفراز الغلوكاغون من ($amylin$) خلايا بيتا تطلق الأنسولين و الأميلين و خلايا ألفا (α -cells).

إذن الآلية الأساسية هي: $Activation\ of\ \beta\text{-cells} \rightarrow leads\ to\ suppression\ of\ \alpha\text{-cells}$.

19) Which of the following is not an effector protein?

- A. Adenylyl cyclase
- B. Guanylyl cyclase
- C. Protein kinase
- D. Phospholipase
- E. Ion channels for calcium

Answer: C



Questions:

20) Which loops are connected by a disulfide bridge?

- A. E1 and E2 loops
- B. E2 and E3 loops
- C. C1 and C2 loops
- D. C2 and C3 loops
- E. E1 and E3 loops

Answer: B

21) Thyroxine binds to which plasma protein in its active form ?

- A. Albumin
- B. Globulin
- C. Prealbumin
- D. Unbound

Ans: D

22) Which of the following describes the best characteristics of a biomarker?

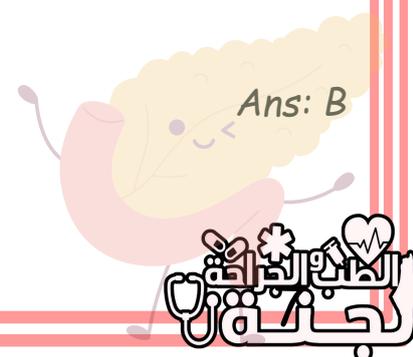
- A) High specificity, low sensitivity, and long-term duration in the body
- B) High specificity and sensitivity, with moderate duration in the body
- C) Low specificity, high sensitivity, and short-term duration in the body
- D) Low specificity and low sensitivity, with moderate duration in the body
- E) High sensitivity, low specificity, and long-term duration in the body

Ans: B

23) Which enzyme is deficient in alkaptonuria?

- A) Phenylalanine hydroxylase
- B) Homogentisate dioxygenase
- C) Carbamoyl phosphate synthase 1
- D) Tyrosinase
- E) Fumarylacetoacetate hydrolase

Ans: B



Questions:

24) Glucogenic and ketogenic:

- A. Leucine
- B. Lysine
- C. Isoleucine
- D. Alanine

Answer: C

25) All of the following amino acids undergo transamination except:

- A. Glycine
- B. Tryptophan
- C. Threonine
- D. Serine
- E. Tyrosine

Answer: C

26) Which of the following is most likely to occur in Conn syndrome (primary hyperaldosteronism)?

- A. Hypokalemia, Metabolic alkalosis
- B. Hypokalemia, Metabolic acidosis
- C. Hyperkalemia, Metabolic alkalosis
- D. Hyperkalemia, Metabolic acidosis
- E. Hyponatremia, Metabolic alkalosis

Answer: A

27) Primary adrenocortical insufficiency:

- A. High renin, low aldosterone
- B. Low renin, low aldosterone
- C. High renin, high aldosterone
- D. Low renin, high aldosterone
- E. Normal Renin, Normal Aldosterone

Ans: A



Questions:

28) All of the following due to mass effect except?

- A. Headaches
- B. visual field deficits
- C. Seizures
- D. hydrocephalus
- E. Oligomenorrhea

Answer: E

29) All of the following are true except:

- A. About 30% of thyroglobulin is thyroglobulin
- B. 10% of thyroglobulin is iodine
- C. 123 monomers are of tyrosine fixed place
- D. 15 tyrosine monomers of thyroglobulin become iodinated
- E. T4:T3 ratio is about 7:1

Answer: B

30) What effect does favism have on fatty acid synthase?

- A. Decrease
- B. Increase
- C. No change
- D. Increase or decrease, depends on other factor
- E. G6PD has no effect on fatty acid synthesis

Answer: A

Explain: low PPP, NADPH,

↓ Fatty acid synthesis

