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Question 1
Not answered
Marked out of 0.500
v1 (latest)

The 'peakless' insulin profile is a feature of which of the following preparations?

Select one:

- A. Glulisine
- B. NPH
- C. Glargine
- D. Lispro
- E. Regular

The correct answer is:
Glargine

Question 2
Not answered
Marked out of 0.500
v1 (latest)

Which class of oral antidiabetic drugs acts by closing ATP-sensitive potassium channels on pancreatic β-cells?

Select one:

- A. Biguanides
- B. Thiazolidinediones
- C. Sodium Glucose Cotransporter 2 (SGLT2) inhibitors
- D. Sulfonylureas
- E. Dipeptidyl Peptidase IV (DPP-4) inhibitors

The correct answer is:
Sulfonylureas

Question 3
Not answered
Marked out of 0.500
v1 (latest)

Which non-insulin antidiabetic agent is most likely to cause weight loss?

Select one:

- A. Meglitinides
- B. Sulfonylureas
- C. Glucagon like peptide 1 (GLP-1) receptor agonists
- D. Dipeptidyl Peptidase IV (DPP-4) inhibitors
- E. Thiazolidinediones

The correct answer is:
Glucagon like peptide 1 (GLP-1) receptor agonists

Question 4
Not answered
Marked out of 0.500
v1 (latest)

A 60-year-old male with renal insufficiency treated for type II diabetes mellitus develops lactic acidosis. Which of the following oral antidiabetic agents might cause this adverse effect?

Select one:

- A. Pioglitazone
- B. Metformin
- C. Dapagliflozin
- D. Acarbose
- E. Glibenclamide

The correct answer is:
Metformin

Question 5
Not answered
Marked out of 0.500
v1 (latest)

Which one of the following is an adverse effect associated with combined oral contraceptives?

Select one:

- A. Hypotension
- B. Renal failure
- C. Aggravation of asthma
- D. Peripheral neuropathy
- E. Deep venous thrombosis

The correct answer is:
Deep venous thrombosis

Question 6
Not answered
Marked out of 0.500
v1 (latest)

The estrogen that is used in most combined hormonal contraceptive is:

Select one:

- A. Diethylstilboestrol
- B. Norgestrel
- C. Ethinyl estradiol
- D. Clomiphene
- E. Estrone

The correct answer is:
Ethinyl estradiol

Question 7
Not answered
Marked out of 0.375
v1 (latest)

Which of the following is the primary mechanism of action of insulin?

Select one:

- A. Activating G-protein-coupled receptors (GPCR)
- B. Inhibition of an AMP-activated protein kinase (AMPK)
- C. Stimulating a soluble Guanylate Cyclase
- D. Inhibit- α-glucosidase enzyme
- E. Activation of Tyrosine Kinase-linked receptor

The correct answer is:
Activation of Tyrosine Kinase-linked receptor

Question 8
Not answered
Marked out of 0.500
v1 (latest)

Which cells secrete growth hormone (GH)?

Select one:

- A. Chromophobes
- B. Gonadotropesn chemicals
- C. Basophils
- D. Acidophils

The correct answer is:
Acidophils

Question 9
Not answered
Marked out of 0.500
v1 (latest)

What is the effect of GH on bone growth?

Select one:

- A. Stimulates chondrocyte multiplication and bone matrix mineralization
- B. Decreases calcium absorption
- C. Stops bone growth after birth
- D. nhibits osteoblast activity

The correct answer is:
Stimulates chondrocyte multiplication and bone matrix mineralization

Question 10
Not answered
Marked out of 0.500
v1 (latest)

What is the diabetogenic effect of GH?

Select one:

- A. GH prevents gluconeogenesis
- B. GH lowers blood glucose
- C. GH increases insulin sensitivity
- D. GH causes insulin deficiency due to β-cell burnout

The correct answer is:
GH causes insulin deficiency due to β-cell burnout

Question 11
Not answered
Marked out of 0.500
v1 (latest)

Which of the following is an example of a paracrine messenger?

Select one:

- A. Prostaglandins
- B. Insulin
- C. Oxytocin
- D. Growth hormone

The correct answer is:
Prostaglandins

Question 12
Not answered
Marked out of 0.500
v1 (latest)

Which of the following hormones is synthesized from proopiomelanocortin (POMC)?

Select one:

A. ACTH
B. GHRH
C. GH
D. PRL
E. TSH

The correct answer is: ACTH

Question 13
Not answered
Marked out of 0.500
v2 (latest)

Bitemporal hemianopia is a characteristic sign of which of the following diseases?

Select one:

A. Hyperprolactinaemia
B. Panhypopituitarism
C. Cretinism
D. Dwarfismt
E. Gigantism

The correct answer is: Gigantism

Question 14
Not answered
Marked out of 0.625
v1 (latest)

In Laron dwarfism which of the following pathophysiological changes occurs?

Select one:

A. Degeneration of acidophilic cells in the anterior pituitary
B. GH cannot stimulate liver cells due to GH receptors defect in liver cells
C. There is a congenital defect in secretion of IGF-1 from kidney cells
D. Deficiency of GHRH from hypothalamus
E. Non-functioning tumor of chromophobes compresses and destroys the normal cells secreting GH

The correct answer is: GH cannot stimulate liver cells due to GH receptors defect in liver cells

Question 15
Not answered
Marked out of 0.500
v1 (latest)

Which of the following best describes Sheehan's syndrome?

Select one:

A. It is characterized by acromegalic face
B. The patient suffered this syndrome is very tall reach 2 meter
C. In which, Supracellar cyst which compress anterior pituitary
D. It causes Simmond's disease after postpartum hemorrhage
E. Caused by surgical removal of pituitary gland

The correct answer is: It causes Simmond's disease after postpartum hemorrhage

Question 16
Not answered
Marked out of 0.500
v1 (latest)

Which cells in the thyroid gland secrete calcitonin?

Select one:

A. Cuboidal epithelial cells
B. Thyroglobulin cells
C. Parafollicular cells
D. Follicular cells

The correct answer is:
Parafollicular cells

Question 17
Not answered
Marked out of 0.500
v1 (latest)

Which hormone is produced by combining two molecules of DIT?

Select one:

A. Reverse T3
B. MIT
C. T4
D. T3

The correct answer is:
T4

Question 18
Not answered
Marked out of 0.500
v1 (latest)

What is the effect of thyroxine on basal metabolic rate (BMR)?

Select one:

A. Decreases BMR
B. No effect on BMR
C. Stabilizes BMR
D. Increases BMR

The correct answer is: Increases BMR

Question 19
Not answered
Marked out of 0.500
v1 (latest)

An example of a hormone derived from amino acid is ..... hormone

Select one:

- A. glucagon
- B. oxytocin
- C. insulin
- D. prolactin
- E. adrenaline

The correct answer is: adrenaline

Question 20
Not answered
Marked out of 0.500
v1 (latest)

Group I hormones are characterized by:

Select one:

- A. hydrophilic
- B. need a second messenger
- C. bind to cell surface receptors
- D. require carrier protein
- E. have a short half life

The correct answer is: require carrier protein

Question 21
Not answered
Marked out of 0.500
v1 (latest)

Which of the following *isn't true* for hormones that inhibit adenylate cyclase?

Select one:

- A. Their action can be terminated by dissociation of the hormone from the receptor
- B. Their action is mediated by G protein
- C. Their action can be terminated by activation of phosphodiesterase enzyme
- D. An example of these hormones is angiotensin II
- E. They are hydrophilic hormones

The correct answer is: Their action can be terminated by activation of phosphodiesterase enzyme

Question 22
Not answered
Marked out of 0.500
v2 (latest)

Which of the following *is true* for atrial natriuretic factor (ANF)

Select one:

- A. It inhibits aldosterone secretion
- B. It is produced by the liver
- C. It produces vasoconstriction
- D. It stimulates soluble guanylate cyclase
- E. It increases the blood pressure

The correct answer is: It inhibits aldosterone secretion

Question 23
Not answered
Marked out of 0.500
v2 (latest)

Hormones that act through Ca and phosphoinositides as a second messenger are not characterized by:

Select one:

- A. activates calmodulin protein
- B. stimulate Ca release from intracellular organelles
- C. stimulate Ca entry into the cell
- D. they are lipophilic
- E. activates phospholipase C through G protein

The correct answer is: they are lipophilic

Question 24
Not answered
Marked out of 0.500
v3 (latest)

Growth hormone gene is located on chromosome .....

Select one:

- A. 17
- B. 23
- C. 11
- D. 6
- E. 1

The correct answer is: 17

Question 25
Not answered
Marked out of 0.500
v2 (latest)

The hormone that is produced by the supraoptic nucleus of the hypothalamus is .....

Select one:

A. Growth hormone
B. Prolactin
C. LH
D. FSH
E. ADH

The correct answer is: ADH

Question 26
Not answered
Marked out of 0.500
v1 (latest)

Thyroid hormones are synthesized from .....

Select one:

A. glycine
B. tryptophan
C. tyrosine
D. threonine
E. phenylalanine

The correct answer is: tyrosine

Question 27
Not answered
Marked out of 0.500
v1 (latest)

The prolactin hormone acts by .....

Select one:

A. binding to hormone response element
B. Ca & phosphoinositides
C. protein kinase cascade
D. cAMP
E. cGMP

The correct answer is: protein kinase cascade

Question 28
Not answered
Marked out of 0.500
v1 (latest)

Which of the following cells of pars distalis stained specifically by azocarmine dye?

Select one:

A. Lactotrophs
B. Thyrotrophs
C. Corticotrophs
D. Somatotrophs
E. Gonadotrophs

The correct answer is:
Lactotrophs

Question 29
Not answered
Marked out of 0.500
v1 (latest)

The cell which secretes TSH hormone belongs to which of the following?

Select one:

A. Acidophils of pars distalis
B. Basophils of pars distalis
C. Neurosecretory cells of pars nervosa
D. Chromophobes of pars distalis
E. Pitucytes of pars nervosa

The correct answer is:
Basophils of pars distalis

Question 30
Not answered
Marked out of 0.500
v3 (latest)

Which of the following is true about somatotrophs?

Select one:

A. Stains orange with orange G
B. Secrete prolactin hormone
C. Their granules are glycoprotein in nature
D. Decrease in number during pregnancy
E. Increase in size during pregnancy

The correct answer is:
Stains orange with orange G

Question 31
Not answered
Marked out of 0.500
v1 (latest)

Which of the following is a downward extension of the median eminence of pituitary gland?

Select one:

A. Pars nervosa
B. Infundibulum
C. Pars distalis
D. Pars tuberalis
E. Pars intermedia

The correct answer is:
Infundibulum

Question 32
Not answered
Marked out of 0.625
v1 (latest)

Which of the following is true about the chromophobes of anterior pituitary?

Select one:

A. Their percentage is 11%
B. They are the smallest cell type
C. They secrete anterior pituitary hormones
D. They have stainable granules
E. They have high affinity to dyes

The correct answer is:
They are the smallest cell type

Question 33
Not answered
Marked out of 0.500
v2 (latest)

A thyroid biopsy shows tall columnar epithelial cells forming papillary infoldings with scalloped colloid What is the most likely diagnosis?

Select one:

A. Hashimoto thyroiditis
B. Follicular adenoma
C. Papillary thyroid carcinoma
D. Subacute thyroiditis
E. Graves' disease

The correct answer is:
Graves' disease

Question 34
Not answered
Marked out of 0.500
v2 (latest)

A 70-year-old woman with a long-standing multinodular goiter presents with a rapidly enlarging, fixed neck mass. Biopsy reveals spindle and giant cells with marked pleomorphism and necrosis. What is the origin of this tumor?

Select one:

A. On top of autoimmune thyroiditis
B. Transformation from well-differentiated thyroid carcinoma
C. Viral-induced neoplasm
D. De novo mutation in C cells
E. On top of follicular adenoma

The correct answer is:
Transformation from well-differentiated thyroid carcinoma

Question 35
Not answered
Marked out of 0.500
v2 (latest)

A 58-year-old diabetic man develops nephropathy and retinopathy. Which pathologic mechanism underlies these complications?.

Select one:

A. Immune complex deposition
B. Autoimmune attack on endothelium
C. Amyloid deposition
D. Non-enzymatic glycosylation of vascular basement membranes
E. Hypovitaminosis A

The correct answer is:
Non-enzymatic glycosylation of vascular basement membranes

Question 36
Not answered
Marked out of 0.375
v2 (latest)

A 29-year-old woman has a thyroid nodule and enlarged cervical lymph nodes. FNA shows "Orphan Annie eye" nuclei. What is the typical route of spread?

Select one:

A. Hematogenous
B. Transluminal
C. Transcoelomic
D. Perineural
E. Lymphatic

The correct answer is:
Lymphatic

Question 37
Not answered
Marked out of 0.375
v2 (latest)

A 42-year-old woman presents after a viral upper respiratory infection with a painful neck swelling and transient hyperthyroidism. Two months later, she is euthyroid. What explains this transient course?

Select one:

- A. Fibrosis-induced TSH resistance
- B. Release of thyroid hormones due to follicular destruction
- C. Iodine toxicity
- D. Pituitary adenoma with secretion of TSH
- E. Autoimmune antibody production

The correct answer is:
Release of thyroid hormones due to follicular destruction

Question 38
Not answered
Marked out of 0.375
v2 (latest)

A 10-year-old child presents with a midline neck cystic swelling that moves upward when protruding the tongue. What is the most likely diagnosis?.

Select one:

- A. Branchial cleft cyst
- B. Dermoid cyst
- C. Epidermoid cyst
- D. Thyroglossal duct cyst
- E. Cystic hygroma

The correct answer is:
Thyroglossal duct cyst