GENESIS

(Post Graduation Medical Orientation Centre)

Foundation-2 Batch

Total Number- 60 Pass Mark-42

a) Gastrinb) Secretin

d) Motilin

TFFTF

e) Somatostatin

c) CCK

Subject: GIT Physiology

Question 16-30 is based on Single answers

7. Gastrin secretion is increased

- a) After vagal stimulation
- b) By enterogastric reflex
- c) Following a protein meal
- d) By GTP
- e) During starvation

TFTTF

2. Secretin is released by

- a) Acid in duodenum
- b) Acid in stomach
- c) Cells in the liver
- d) Distention of colon
- e) Distension of stomach

T F FFF

3. Functions of gastrin

a) Stimulates gastric acid and pepsinogen secretion

1. Following factors increases gastric emptying

- b) Relax lower esophageal sphincter
- c) Stimulates insulin and glucogonsecrotion after CHO meal
- d) Contraction of sphincter of Oddi
- e) Stimulates the growth of gastro-intestinal mucosa

TFFFT

4. Motilin secreted from

- a) Duodenum
- b) Small Intestine
- c) Colon
- d) Mo cells
- e) K cells

TTTTF

5. Hormones belongs to secretin family

- a) Gastrin
- b) Glucagon
- c) Glicentin
- d) CCK-PZ
- e) GIP

FTTFT

6. Somatostatin

- a) Reduces absorption
- b) Reduces gastrin release
- c) Reduces insulin secretion
- d) Decreases intestinal motility
- e) Stimulates glucagon secretion

T TTT F

8. Entero - endocrine cells of GI tract includes

Time: 30 Min

Date: 12/03/2020

- a) G cell
- b) D cell
- c) M cell
- d) I cell
- e) B cell

TTFTF

9. Regarding reaction of digestive Juices

- a) Saliva usually slightly acidic
- b) Gastric juice slightly acidic
- c) Pancreatic juice alkaline
- d) Intestinal juice strongly alkaline
- e) Intestinal juice strongly acidic

TFTFF

10. Following are released as inactive form in digestive jaundice

- a) Elastase
- b) Trypsinogen
- c) Phospholipase A2
- d) Chymotrypsinogen
- e) Pepsin

T TTTT

11. Intrinsic factor

- a) Is needed for absorption of vitBp
- b) Is required for erythropoiesis
- c) Forms a protective barrier
- d) Prevents digestion of stomach wall
- e) Is secreted from oxyntic cells

TTFFT

12. In the stomach

- a) Acetylcholine stimulates the secretion of gastrin
- b) Histamine stimulates the secretion of HCI
- c) Gastrin stimulates the secretion of histamine
- d) Prostaglandin stimulates the secretion of HCl
- e) Acetylcholine stimulates the secretion of HCl

FTTFT [Ref: Davidson-23rd/Box-21.3/P-767]

13. Defective parietal cells would result in malabsorption of

- a) Vitamin B₁
- b) Folic acid
- c) Vitamin B₁₂
- d) Iron
- e) Vitamin C

FFTTF

14. Stimuli that increase gastrin secretion

- a) Somatostatin
- b) Calcitonin
- c) Increased vagal discharge
- d) Luminal distension
- e) VIP

FFTTF

15. Followings are compatible-PH

a) Saliva: 6-74

b) Bile (GB): 7.8-8.6

c) Brunner's gland juice: 8.0-8.9 d) Pancreatic juice: 7.0-7.4

e) Small intestinal juice: 7.5-8.0

TFTFT

Each question below contains five suggested answers- choose the <u>one best</u> response to each question (16-30)

16. Following hormone acts on sphincter of Oddi

- a) PZ
- b) CCK
- c) Secretin
- d) VIP
- e) Gastrin

В

17. PPI acts on

- a) H-K⁺ pump
- b) Na⁺-K⁺ pump
- c) Na⁺-Ca²⁺ pump
- d) Na⁺-H⁺ pump
- e) HCO⁻₃-Cl-pump

Α

18. Secretin acts on

- a) Ductal cell of pancreas
- b) Acinar cell of pancreas
- c) Brush border of small intestine
- d) Antral cell of stomach
- e) Inhibit parietal cell

Α

19. Activator enzymes of succussintrericus

- a) Enterokinase
- b) Trypsinogen
- c) Pepsin
- d) Luminal pH
- e) Dipeptidase

Α

20. Only CHO, that's digestion occurs in stomach

- a) Fructose
- b) Maltose
- c) Galactose
- d) Sucrose
- e) Maltotriose

D

21. Peptides with appetite-suppressing property include

- a) Cholecystokinin
- b) Ghrelin
- c) Glucagon-like peptide 2
- d) Gatrin
- e) Secretin

A (Davidson 23rd/Box-21.2/P- 772, Ganong P- 441)

22. Acidic pH of gastric juice

- a) Stimulates secretion of secretin
- b) Stimulates secretion of gastrin
- c) Inhibits protein digestion
- d) Inhibits in iron absorption
- e) Inactivates pepsinogen

A [Ref: Guyton & Hall/13th/Box-63.1/P-802]

23. Bile is composed of

- a) Bile acids
- b) Protein
- c) Cholesterol
- d) Fat soluble vitamin
- e) Cholecystokinin

C [Ref: Guyton & Hall/13th/Box-65.2/P-829]

24. Regardingbile salts –followings are true except

- a) Are the only constituents of bile necessary for digestion of fat
- b) Have characteristic parts, water soluble & fat soluble
- c) Are reabsorbed mainly in the upper small intestine
- d) Are derived from cholesterol
- e) Stimulate bile secretion by the liver

C

25. Food intake is regulated by except

- a) Thermostatic mechanism
- b) Circulating level of leptin
- c) Specific dynamic action of food
- d) Basal metabolic rate
- e) Ghrelin concentration in blood

C [Ganong P-485, Fig: 26.9]

26. Regarding the Slow waves in gut smooth muscles following are true except

- a) Action potentials -
- b) Due to Na-k pump
- c) Phasic contraction
- d) Oscillating resting potential
- e) Controlled by interstitial cells of Cajal

B [Ref: Guyton & Hall/13th/P-797,798 +BRS/P-199]

27. The terminal ileum is the main site of absorption of

- a) Iron
- b) Glucose
- c) Amino acid
- d) Bile salt
- e) Cupper

D [Ref: Ganong physiology/25th/T-26.1/P-477]

28. Decreased iron absorption occurs in except

- a) Iron overload
- b) Chronic infection
- c) Decreased erythropciesis
- d) Taking dietary fibre
- e) Hypoxemia

Ε

29. Na⁺ -co -transport is necessary for intestinal absorption

- a) Vit-E
- b) Bile salt
- c) Fructose
- d) Dipeptides
- e) Vit-A

R

30. Pancreatic secretion

- a) In response to vagal stimulation is copious, rich in HCO₃- but poor in enzymes
- b) In response to acid in the duodenum is scanty but rich in enczyme
- c) In response to secrtinsecertion low in HCO₃-
- d) Contains enzymes that convert neutral fat to fatty acid and glycerol
- e) Contains enzymes that convert disaccharides to monosaccharide

D