

Physiology team

MCQs

Done By :

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1- firing of spikes potentials starts at:

- -56
- 40**
- 35
- 50

2- which neurotransmitter is produced from both motor and secretomotor neurons of GIT:

- ach**
- Substance p
- VIP
- Histamine.

3- according to the law of gut: the receiving segment will have:

contraction of longitudinal muscles only-

- contraction of circular muscles only
- contraction of longitudinal muscles & relaxation of circular muscles.**
- relaxation of longitudinal muscles & contraction of circular muscles.

4- In case of sympathetic overstimulation, the effect on GIT blood flow eventually will be:

- decreased
- increased
- normal**

5- the cause of slow waves is

- Na influx only**
- Ca influx only
- Na & ca influx
- Ca outflux

6- blocking of propulsive movements of GIT can happen by:

- NSAIDs
- Atropine.**
- Histamine blockers
- Propranolol

7- the antiperistalsis movements happening between ileum & cecum is to allow more time

for:

- neutralization of food.
- emptying of the stomach.
- **absorption.**

8- one of the Motilin functions is :

- **regulates MMC**
- Increase intestinal motility
- contract ileocaecal sphincter

9- fructose is absorbed from intestinal lumen through:

- GLUT 2
- passive diffusion
- **facilitated diffusion**

10- which one of the followings absorption is independent on Na absorption:

- **D-AA**
- L-AA
- glucose
- vit.B1

11-parotid glands don't secret.....

- ions
- water
- enzymes.
- mucus.**

12- Ptyalin breaks:

- beta 1,4 glycosidic bond
- alpha 1,6 glycosidic bond.
- **alpha 1,4 glycosidic bond.**

13- The sympathetic action on salivary glands is

- nothing
- **increase secretion**
- decrease secretion

14- the strongest fat splitting enzyme is :

- alpha amylase
- lingual lipase
- gastric lipase
- **pancreatic lipase**

15- which of the following is exopeptidase:

- carboxypeptidase**
- pepsin
- chymotrypsin
- elastase

16- the main source of digestive enzymes is :

- sublingual glands
- Pancreatic ducts
- **Pancreatic acinar glands.**

17- Phospholipase A2 hydrolyses the fatty acid esterified at carbon number:

- 1
- 2**
- 3

18- which component of the saliva mucus has amphoteric properties:

- water
- **glycoproteins**
- electrolytes

19- ..... can keep the LES closed

- sympathetic only
- parasympathetic only
- both sympathetic & parasympathetic**

20- the type of contraction at the Antral pump is :

- tonic contraction
- **phasic contraction**

- continuous contraction

21- one of the essential functions of the stomach that can't be replaced by any other organ is:

- digestion

- Absorption

- acid secretion

- **Intrinsic factor production**

22- there is no digestion of ..... in the stomach.

- lipids

- **carbohydrates**

- proteins

23- histamine can stimulate the release of HCL from parotid cells by its function on:

-H1

- **H2**

-H3 receptors

24- entero-oxyntin stimulates the release of

- gastrin

-HCL

-gastric intrinsic factor

-**all of the above**

25- entrogastones work in which phase of gastric secretion process :

-cephalic phase

- gastric phase

-early intestinal phase

-**late intestinal phase**

26- 2nd phase of gastric AP is :

- **plateau phase**

- falling phase

-upstroke.

27- hanger contraction increases by:

- high glucose blood level.
- high lipids blood level.
- **low glucose blood level.**
- low lipids blood level.

28- MMC is inhibited when:

- stomach is empty
- smelling food
- **ingesting food.**

29- Somatostatin is produced from:

- S cells
- G cells
- I cells
- D cells**

30 -which one of the following isn't a part of entrogastrones hormones:

- GRP**
- CCK
- GIP
- VIP

31- Gastrin hormone:

- Is secreted from the intestine.
- Increases gastric acid secretion.**
- Is secreted from the liver.
- None of the above

32-Protein digestion in the stomach occurs by:

- Chymotrypsin.
- Trypsin.
- **Pepsin.**
- Amylase.

33-Pancreatic secretion:

- Contains proteolytic enzymes (digest proteins).**
- Is under nervous control only.

- Is acidic.
- Volume is about 6 liters/day.

**34-Saliva:**

- Contains trypsin..
- **Is hypotonic relative to plasma.**
- Volume ranges from 5-6 L/day.
- Normally, is alkaline

**35-Trypsin is secreted from:**

- Parietal cells.
- Gastric G-cells.
- Pancreatic acinar cells.**
- Liver.

**36-Gastric pepsin:**

- Is secreted from parietal cells.
- Digests proteins.**
- Is inhibited by gastric HCL.
- Digests starch.

**37-Absorption in the gastrointestinal tract:**

- Is mechanical breakdown of food into small particles.
- **Is transport of digested end products from intestinal lumen to blood.**
- Is the elimination of indigestible substances from the body.
- None of the above.

**38-The type of salivary secretion from parotid gland is:**

- Both serous and mucous.
- **Serous.**
- Mucous.
- None of the above.

**39-Gastric HCl is secreted from:**

- Peptic cells.
- **Parietal cells.**
- Mucous cells.
- Endocrine cells.

**40-The average volume of gastric secretion is:**

- 5-8 liters / day.
- 8-10 liters / day.

- 500 ml / day.
- **2-3 liters / day.**

**41-Gastric secretion is decreased by:**

- Gastrin.
- Secretin.
- Cholecystokine.
- **Both (b) and (c) are correct**

**42-Proteolytic enzymes are:**

- Trypsin.
- Chemotrypsin.
- Carboxypeptidase.
- **All of the above.**

**43-Salivary amylase digests:**

- Starch into glucose.
- Fats into fatty acids.
- Proteins into amino acids.
- **Starch into maltose.**

**44-pH of all of the following secretions is alkaline Except:**

- Bile.
- **Gastric secretion.**
- Pancreatic secretion.
- Intestinal secretion.

**45-Intrinsic factor is secreted from:**

- G- cells.
- Peptic cells.
- **Parietal cells.**
- Mucous cells.

**46-The stimuli for gastrin release are all of the following Except:**

- Gastric distension.
- Caffeine.
- Presence of amino acids and peptides.
- **Lowering of gastric pH**

**47-Protein digestion starts in:**

- The mouth.
- **The stomach.**



- **The duodenum.**
- **The colon.**

**48-At low flow rate, salivary secretions have:**

- High K +and HCO<sub>3</sub>-**
- Low Na+ and Cl-**
- **low K + and High Na +**
- A and B**