



الطب والجراحة لجنة

Final exam – GI

دفعة نبض 2019

1. Formation of HCl in the stomach?

- a. Is the only function of parietal cell
- b. Does not occur in stomach lumen.
- c. Leads to post prandial alkaline tide.
- d. Does not need carbonic anhydrase enzyme
- e. Under only nervous control.

2. Cholera like diarrhea caused by?

- a. Giardia lamblia
- b. Schistosoma mansoni.
- c. Ascaris lumbricoides.
- d. Cryptosporidium parvum.
- e. Balanhydium coli.

3. Metoclopramide and Domperidone: Which of the following is false?

- a. Both have antiemetic action
- b. Both have prokinetic action

c. Both increase cholinergic activity in gut wall d Both can cause galactorrhea e. Both can cause acute dystonia

(D and E are both correct)

4. Which of the following is the CORRECT statement?

a Meissner's plexus is called the myenteric autonomic plexus

b. Brunner's glands are serous glands C The colonic mucosa has adipose pouches called appendices epiploicae

d. Peyer's patches are lymphatic aggregations in the ileum

e. The lingual glands are serous glands associated with circumvented papillae

5. A 30-year-old man has complained of bloody and mucoid diarrhea for 3 months On physical examination he has no abdominal masses and mild diffuse lower abdominal tenderness Colonoscopy reveals an erythematous mucosa extending from the rectum to the splenic flexure Colonic biopsies reveal mucosal ulceration with crypt abscesses All of the following complications or extraintestinal manifestations are likely to develop except? Select one **answer is D**

a. a Toxic megacolon Ankylosing spondylitis

b. Colonic adenocarcinoma

c. primary sclerosing cholangitis

d. strictures and fissures

6. Regarding treatment of DIARRHEA all the following are facts of ADSORBENTS EXCEPT (Select one)

- a They coat the walls of GIT
 - b. They bind with causative bacteria and taxn
 - c.**They increase atsrption of digoxin and clindamycin
 - d. Examples activated chiarcoar and kaolin-pectin
- increased bleeding times wen given with anticoagulant

7. One of the foliowing is incorect about hepatic adenomas?

Select one

- a Cessation of sex hormones could lead to tumor regression
 - b Expanding masses place a ppressure on the hepatic cape which may cause pain
 - c.**the most common benign livier turmiors
- They can present with intra-abdominal hemorrhage
- The most comtnon ayniptorm is pian

8. Peptic ulcer is caused by the following except? Select one

a Presence of HP bacteria under the mucous layer

b Defect in mucous production

C Mucosal ischemia

d Excess PGs

e Very hot & spicy food

9. A 43-year-old man who presented with epigastric pain. On physical examination has no abdominal findings. On upper GI endoscopy a solitary sharply demarcated 2-mm shallow gastric antral ulcer is seen and the microscopic examination revealed active chronic gastritis. Which of the following laboratory test findings is most likely to be present in this man? Select one

a Gastric achlorhydria

b. Positive serology for parietal cell antibody.

c. positive urea breath test

10. CCK hormone? Select one:

- a. It is a choleric.
- b. Competitively inhibits gastrin.
- c. CAMP is its second messenger.
- d. Stimulates contraction of pyloric sphincter
- e. Stimulate salivary secretion

11. Regarding the mucous membrane and duodenal papillae. Select the True one?

- a. The mucous membrane of the duodenum is thick all over
- b. The mucous membrane is thrown into numerous circular folds called the rugae
- c. The major duodenal papilla open below minor duodenal papilla
- d. The mucous membrane of the duodenum is thin in terminal part
- e. The accessory pancreatic duct opens into the duct open into the major duodenal papilla

12. Repeated vomiting Leads to all the following, except?

- a. Dehydration.
- b. Hypokalemia.
- c. Alkalemia
- d. Tetany

e Hyponatremia.

13. Concerning the blood supply to the gastrointestinal tract, which of the following has the Superior pancreaticoduodenal artery as a branch

a. Right colic artery

b Gastroduodenal artery

c Left gastroepiploic artery

d Left colic artery

e. Right gastroepiploic artery

14. A 25 years old female complains of a low volume but chronic, foul smelling diarrhea for the past year He has no nausea or vomiting On physical examination there is no abdominal pain or masses and bowel sounds are present. His stool is negative for occult blood Laboratory studies include a negative for TTG IgA antibody, Upper GI endoscopy is performed with biopsies taken of the duodenum and on microscopic examination show absence of villi, increased surface intraepithelial lymphocytes, and normal appearing crypts Which of the following therapies is most likely to be useful for this man? Select one

a Bactenal Antibiotics

b. Gluten-free diet

- c Viral Antibiotics
- d. Corticosteroids
- e Segmental duodenal resection

15. A mother has noted marked abdominal enlargement of her three-days-old son without any passing of the stool. On physical examination his abdomen is distended. What pathologic finding is most likely to be present in this infant? Select one

- a. Aganglionic colonic segment
- b. Congenital bowel malrotation
- c Cecal volvulus
- d. intussusception
- e Necrotizing ischemic colitis

16. A 35-year-old man suffers from anemia, lab investigation proved to be pernicious anemia. This type of anemia may be due to? Select one

- a Damage of oxyntic cells
- b. Insufficient HCL secretion
- c Lack of enteroendocrine cells
- d. Atrophy of lingual papillae
- e Impairment of peptic cells

17. A 25-year-old man has noted cramping abdominal pain for the past two days associated with diarrhea. On physical examination there is right lower quadrant tenderness. Bowel sounds are not present. Which of the following factors is most likely to be the cause of the symptoms for this patient? Select one

- a Infection
- b. Well-differentiated adenocarcinoma
- c Diverticulosis
- d** Vascular obstruction
- e Tubular adenoma with high grade dysplasia

18. Which one of the followings is the INCORRECT match? Select one

- a Striated ducts ///lined with acidophilic low columnar cells
- b.** Main salivary duct //lined with simple columnar ciliated epithelium
- c Intercalated ducts/// lined with flat squamous cells
- d Main pancreatic duct ///lined with columnar goblet and enteroendocrine cells
- e Gall bladder //lined with simple columnar cells with brush border

19. Which of the following is found in milk?

- a. beta-1,4 - glucose - glucose

B. Alpha -1,4 glucose, galactose

C. beta-1,6 glucose, glucose

D. beta1,4, glucose, galactose

C. Alpha 1,4 glucose, glucose

20. Bad odor from umbilicus due to? Select one:

a Vitelline cyst

b. Vitelline duct

C. Vitelline sinus

d. Vitelline tissue

e Vitelline fistula

21. A 16-year-old boy who is receiving chemotherapy for leukemia sees the physician because he has had pain for 1 week when he swallows food. Physical examination shows no abnormal findings. Upper gastrointestinal endoscopy shows 0.5- to 0.8-cm mucosal shallow ulcers in the region of the mid to lower esophagus. Which of the following is most likely to produce these findings? Select one.

a. CMV ESOPHAGUS

b. Herpes simplex esophagitis

C Gastroesophageal reflux disease

d Candida esopinagltis

E Weiss Syndrome

22. After digestion of a potato, mushrooms, and a sucrose drink, the fastest sugar enters the blood is? Select one

a Glucose

b. Fructose C Galactose

d. Mannose

e isomaltose

23. All following are true about drugs for peptic ulcers EXCEPT? Select one

a Quadrable therapy includes FPI, bismuth sutsalicylate inetronidazole amoxicitin

b. Histamine 2 antagonists can be given orally or IV

C PPIs are superior than H2 antagonistin suppression of acid production

D. Mnoptostol is used in prevention of NSAID induced ulcer

24. What is the principal cell type involved in scar deposition, fibrosis and then cirrhosis as a reaction to chronic liver injury? Select one

- a Bile duct cells
- b Endothelial cells
- c Hepatocyte
- d Stellate cell**
- e. Kupffer cells

25. A 38-year-old woman has a history of chronic alcohol abuse. She is a known case of rheumatoid arthritis and has been taking over the counter pain killers for the past 5 years. She has developed increasing malaise and nausea for the past week. On physical examination she displays disturbances in consciousness. No abdominal pain or tenderness. Blood tests revealed transaminases. Which of the following zones/ regions is the most susceptible to this type of injury? Select one answer is A

- a Zone I
- b Periportal zone
- c. Zone II
- d. a midlobular region
- e. Zone III**

26. Which statement is WRONG regarding preventive measures of clostridium botulinum intoxication? Select one

- a. Ensuring proper manufacturing practices

b. Ensuring fast cooling of food

C Proper heating of food before consumption to destroy heat labile neurotoxins

d. Food should be heated to 60°C and temperature maintained for at least 5 min before eating

e Preserved foods possessing rancid or other odours should be rejected

27. Which bacteria stopped from dissemination in blood by macrophages? Select one:

a EHEC alone

b. Shigella

C ETEC alone

d V. Cholera

e EIEC alone

28. Which of the following is the function of the human GALL BLADDER? Select one O

a Production of bile

b Storing the bile

c Producing an insulin

d..A and B

e. AandC

29. Which of the following may be the only detectable serological marker during the early convalescent phase of HBV infection window phase Select one **answer is b**

A. HBeAg

B. HBsAg

C. HBcAg

d. Anti HBc

E. HBeAb

30. Concerning Mastication All of the following are true, except? Select one:

a Increases the surface area of food exposed to enzymes

b. Of great importance in fruits and vegetables digestion

c Can be done voluntarily

d Completed by chewing reflex

e Regulated by chewing center in pons

31. The following are therapeutic uses of 5-HT₃ receptor blockers except? Select one

a Anti-emetic action following abdominal irradiation

b Anti-emetics for cancer chemotherapy

c PONV

d. Prokinetic to enhance gastric emptying after vagotomy for peptic ulcer

e. Anticholinergic for infectious gastroenteritis

32. Helicobacter pylori is associated with all of the following, EXCEPT?

Select one

a duodenal ulcer

B. Gastric carcinoma

C Peptic ulcer

d Burkitt lymphoma

e gastritis

33. Which of the following is most correct regarding a rotavirus vaccine?

a. Rotarix vaccine is a killed vaccine containing the single most common rotavirus

b. Rotateq vaccine is a live reassortant vaccine which contained the single most common rotavirus serotype

c. Rotateq vaccine is a live reassortant vaccine which contained live rotavirus strains

d. Rotateq vaccine is a killed vaccine which contained live rotavirus serotypes

e. Rotarix vaccine is a live attenuated vaccine contained live rotavirus serotypes

34. Which of following is FALSE regarding anti-peptic ulcer drugs?
Select one

a Duration of therapy with antimicrobial agents is 2 weeks

b. Cimetidine has antiandrogen side effect

c. PPIs can cause B12 deficiency

d. Misoprostol can be given during pregnancy

e Aluminum hydroxide causes constipation

35. Which of the following statement is INCORRECT about enemies of food storage? Select one:

a. Low temperature

b. Contamination by pathogenic microorganisms

c. High Humidity

d. High Temperature

e. Contamination by strong odors

36. One of the following is not considered a red flag (high risk) in patients with peptic ulcer disease? Select one:

a. Anemia

b. Weight loss

C. Epigastric pain

d. Hematemesis

e Persistent vomiting

37. Lymph drainage of stomach include the following lymph node group except? Select one:

a. Right gastric nodes

b. The celiac nodes

C. The superior mesenteric nodes

d. Right gastroepiploic nodes

e Short gastric nodes

38. Regarding side effects of OPIATES all the following are true EXCEPT

A . Respiratory depression

B . Bradycardia

C .Diarrhea

D .Flushing

E . Urinary retention

39. A 13 year old girl came to the emergency with sudden right upper quadrant abdominal pain .ultrasound reveals a dilated thickened gallbladder filled with stones a cholecystectomy is performed the gallbladder contained multiple faceted tiny dark black gallstones .which of the following underlying conditions does this girl most likely have?

A . ulcerative colitis

B . sickle cell Anemia

D . glomerulonephritis

. E crohn disease

40. Which of the followings is true regarding the appendix?

A retroperitoneal structure

B supplied from inferior mesenteric artery

C attach to the lateral aspect of the cecum

D commonly hanging

E commonly projecting upward along the lateral side of the cecum

41. A 25-year-old healthy man who has a family history of colon cancer with onset at a young age. There are no abdominal physical examination findings. He undergoes colonoscopy and there are over 150 tubular adenomas on gross inspection and microscopic examination of biopsies. Which of the following genetic mutations is the most likely to have?

A . transforming growth factor β (TGF- β) mutation

B . LKB1/STK11 gene mutation

C . mutation in APC gene

D . inherited germ line mutations in DNA mismatch repair genes

E . TP53 gene mutation

42. All of the following are reasonable tests to investigate H. pylori infection except?

A . serological tests

B . urea-breath test

C . stool antigen

D . rapid urease test

E . cultures

43. One of the following muscles close the oropharyngeal isthmus?

A . muscles uvulae

B . palatopharyngeus muscle

C . palatoglossus muscle

D . tensor palati muscle

E . levator palati muscle

44. Regarding to cells choose the CORRECT statement?

A . phagocytic cells

. B have numerous lysosomes

C . perisinusoidal stellate cells

. D originate from blood monocytes

E . present in the wall of blood sinusoids

45. Choose the wrong statement of the following?

A . if triacylglycerols directly entered the blood they would coalesce impeding blood flow

B . only essential fatty acids are required in our diet

C . the major enzyme that digests dietary triacylglycerols is pancreatic lipase

D . bicarbonate raises the PH of the contents of the intestinal lumen

. **E** pancreatic lipase hydrolyzes triacylglycerols producing free fatty acids and free glycerol

46. A -41- year- old man has a history of numerous episodes of nausea and vomiting followed by massive hematemesis on physical examination there is no abdominal tenderness or distension and bowel sounds are present his stool is negative for which of the following is the most likely the causative agent for the patient symptoms?

a. severe retching

B . portal hypertension

C . esophageal fistula

D . barrett esophagus

E .esophagus squamous cell carcinoma

47. The mucous membrane of the anterior two third of the tongue derived from?

A . tuberculum impar

B . the anterior part of copula of his

- C . two lateral trigonal swellings
- D . the middle part of copula of his
- E . the posterior part of copula of his

48. All the following parasites inhabit the small intestine of man EXCEPT?

- ascaris lumbricoides
- B . ancylostoma
- C . schistosoma mansoni
- D . strongyloides stercoralis
- E . necator americanus

49. The gallbladder performs the following functions except?

- A . secretes bile of PH 7.8
- B . stores bile
- C . concentrates bile
- D . acidifies bile
- E . absorbs NaHCO_3

50. Which of the following statements is INCORRECTLY matched?

A . the lingual tonsil is covered with non- keratinized stratified squamous epithelium

B . the oxyntic cells are located mainly at the base of the fundic glands

C . the peptic cells are basophilic due to its abundant content of rough endoplasmic reticulum

D . the musculosa of the pylorus is thicker than the fundus and is formed of two layers

E . the filiform papillae are the most common lingual papillae and are lacking taste buds

51. A – amylase, choose the wrong statement?

A . is an endoglucosidase

B . secreted by mouth and pancreas

C . is not functional in high acidic medium like stomach

D . hydrolyze all α - 1,4 glycosidic bondd

E . has no activity toward the α - 1,6 bond

52. Each of the following statemening concerning hepatitis A virus (HAV) is correct EXCEP?

a.The initial site of viral replication is the GIT.

- b.** HAV has a naked icosahedral nucleocapsid with single stranded negative –polarity RNA and has a virion polymerase
- c . children are the most frequently infected group
- D. outbreaks arise from fecally contaminated food or water
- E . HAV is a member of the family picornaviridae

53. A 32 year old man presented with lower abdominal pain. On physical examination there is tenderness palpation in the right lower quadrant .laparoscopic appendectomy is performed. On microscopic examination of the resected appendix all the inflammation is involved the muscularis propria to the serosa what should the pathologist most strongly suspect in this case?

- A- Mildly acute appendicitis
- B- Chronic appendicitis
- C- Peritonitis
- D-** Acute appendicitis with cecitis
- E- Normal appendix

54. Digestion of proteins in the stomach, choose the wrong statement?

- A- Gastrin stimulates the secretion of hydrochloric acid by parietal cells
- B- Gastrin stimulates the secretion of pepsinogen by chief cells

C Dietary proteins are denatured by Pepsin in the stomach making them better substrate for proteases

D- Pepsin acts as an endopeptidase

E- Pepsinogen activated to pepsin by stomach high acidity

55. Which glands below the utricule:

A- Parotid gland

B- Sublingual glands

C- Submandibular glands

D- Thyroid glands

E- Parathyroid glands

56. Bile acid and bile salts, choose the wrong statement?

A- Primary bile acids are steroids consisting of 24 C atoms carrying one carbonyl group and several hydroxyl groups

B- In bile acid the arrangement of A and B rings is in cis form

C The cholic acid conjugates with glycine to form lithocholic acid

D- Bile salts are more amphipathic than the primary bile acids

E- Taurochenodeoxycholic acid is a bile salt

57. The parasite which inhabits the brush border of the small & large intestine is?

- A- *Ascaris lumbricoides*
- B- *Ancylostoma duodenale*
- C- *Cryptosporidium parvum***
- D- *Giardia lamblia*
- E- *Balantidium coli*

THE END