

Histology MCQs/Gastrointestinal Tract II

1 Which of following structures is not a part of the mucosa?

- ☐ Lamina muscularis mucosae
- ☐ Lamina epitelialis
- ☐ Myenteric plexus
- ☐ Lamina propria

2 Which type of connective tissue is the most common in the serosa (tunica serosa)?

- ☐ Reticular connective tissue
- ☐ Elastic connective tissue
- ☐ Loose connective tissue
- ☐ Dense connective tissue

3 Which epithelium is a part of an adventitia (tunica advenitita)

- ☐ Stratified squamous epithelium
- ☐ Simple squamous epithelium
- ☐ Simple cuboidal epithelium
- ☐ There is no epithelium here

4 Which type of antibodies is (mainly) transported to the lumen of intestines?

- ☐ IgA
- ☐ IgE
- ☐ IgG
- ☐ IgM

5 Why is an skin around the vermillion border red? (Why are our lips red?)

- ☐ The epithelium is transparent and highly vascularized, the color is color of blood
- ☐ The epithelium is transparent, the color is color of blood in deeper structures
- ☐ Epithelial cells contain pigment called pheomelanin
- ☐ Epithelial cells contain hemoglobin

6 Mucosa of oral cavity:

- ☐ It is covered mainly by few types of epithelium, on one is the most abundant
- ☐ It is covered mainly by stratified squamous non-keratinizing epithelium
- ☐ It is covered mainly by stratified squamous keratinizing epithelium
- ☐ It is covered mainly by simple columnar epithelium

7 Pharynx:

- ☐ It is covered mainly by few types of epithelium, on one is the most abundant
- ☐ It is covered mainly by stratified squamous non-keratinizing epithelium
- ☐ It is covered mainly by stratified squamous keratinizing epithelium
- ☐ It is covered mainly by simple columnar epithelium

8 Which type of lingual papillae forms V-shaped line close to the terminal sulcus?

- ☐ Circumvalatae
- ☐ Fungiformes
- ☐ Filiformes
- ☐ Foliate

9 Which type of lingual papillae is not associated with taste buds?

- ☐ Circumvalatae
- ☐ Fungiformes



An eating house at the beginning of the 19th century.

- ☐ Filiformes
- ☐ Foliatae

10 Circumvalatae papillae are associated with:

- ☐ Mucinous von Ebner's glands
- ☐ Serous von Ebner's glands
- ☐ Mucinous Weber's glands
- ☐ Serous Weber's glands

11 Which tissue of teeth is the most mineralized?

- ☐ Alveolar bone
- ☐ Cementum
- ☐ Enamel
- ☐ Dentin

12 Tooth:

- ☐ Organ of enamel exists during whole life
- ☐ Cementum covers the crown of the tooth
- ☐ Dentin is of ectodermal origin
- ☐ Dental pulp contains nerves

13 Main mineral of enamel is:

- ☐ Calcium bicarbonate
- ☐ Calcium carbonate
- ☐ Sodium fluoride
- ☐ Hydroxyapatite

14 Embryonic origin of dentin is:

- ☐ Mesenchyme
- ☐ Ectoderm
- ☐ Endoderm
- ☐ Mesoderm

15 In which layer take place main oesophageal glands (glandulae oesophageales propriae)?

- ☐ Muscularis musocae
- ☐ Tunica submucosa
- ☐ Lamina propria
- ☐ Tunica serosa

16 Which type of muscle tissue takes place in distal (aboral) third of the oesophagus?

- ☐ Skeletal muscle is in the circular layer, smooth muscle is in the longitudinal layer
- ☐ Smooth muscle is in the circular layer, skeletal muscle is in the longitudinal layer
- ☐ Skeletal muscle
- ☐ Smooth muscle

17 Which part of the oesophagus is covered by serosa?

- ☐ Proximal (oral) half
- ☐ Distal (aboral) half
- ☐ Supraphrenic part
- ☐ Subphrenic part

18 Stomach:

- ☐ Intrinsic factor is a protein protecting vitamin B₁₂
- ☐ Main gastric glands are coiled mucinous glands
- ☐ Chief cells produce hydrochloric acid
- ☐ There is high pH in the stomach

19 Which two anatomical regions of the stomach have the same histological structure of mucosa?

- ☐ Corpus and pylorus
- ☐ Cardia and pylorus
- ☐ Fundus and corpus
- ☐ Cardia and fundus

20 Gastric folds (rugae):

- ☐ Rugae are longitudinal projections of submucosa
- ☐ Rugae are longitudinal projections of mucosa
- ☐ Rugae are circular projections of submucosa
- ☐ Rugae are circular projections of mucosa

21 What is a lacteal?

- ☐ Lymphatic vessel in the wall of large intestine
- ☐ Lymphatic vessel in the wall of small intestine
- ☐ Blood vessel in the wall of large intestine
- ☐ Blood vessel in the wall of small intestine

22 Small intestine:

- ☐ Plicae circulares are finger-like projections of lamina propria
- ☐ Plicae circulares are finger-like projections of submucosa
- ☐ Villi are finger-like projections of lamina propria
- ☐ Villi are finger-like projections of submucosa

23 Goblet cells:

- ☐ Goblet cells produce mucus of the extracellular matrix of intestinal lamina propria
- ☐ Goblet cells are chemoreceptors of the autonomic nerve system
- ☐ Goblet cells produce mucus covering epithelium of intestines
- ☐ Goblet cells are associated with lacteals

24 Which of following statements about Paneth cells is not true?

- ☐ Paneth cells can be found in intestinal glands (crypts) of jejunum
- ☐ Paneth cells can be found in intestinal glands (crypts) of ileum
- ☐ Paneth cells can be found in intestinal glands (crypts) of appendix
- ☐ Paneth cells can be found in intestinal glands (crypts) of large intestine

25 Circular folds (plicae circulares) of small intestine are projections of:

- ☐ Muscularis externa
- ☐ Muscularis mucosae
- ☐ Lamina propria
- ☐ Submucosa

26 Which part of the intestine contains Peyer's patches?

- ☐ Duodenum
- ☐ Jejunum
- ☐ Ileum
- ☐ Colon transversum

27 Large intestine:

- ☐ Inner layer of tunica muscularis is reduced to three muscle strips
- ☐ Outer layer of tunica muscularis is reduced to three muscle strips
- ☐ Inner layer of tunica muscularis is reduced to two muscle strips
- ☐ Outer layer of tunica muscularis is reduced to two muscle strips

28 Which type of glands are crypts of Lieberkühn (intestinal glands)?

- ☐ Composed alveolar glands
- ☐ Composed tubular glands
- ☐ Simple alveolar glands
- ☐ Simple tubular glands

29 Which major salivary gland is serous only?

- ☐ Apical lingual gland
- ☐ Submandibular gland
- ☐ Sublingual gland
- ☐ Parotid gland

30 Which gland does not contain striated ducts?

- ☐ Submandibular gland
- ☐ Sublingual gland
- ☐ Parotid gland
- ☐ Pancreas

31 Mucus cells of salivary glands:

- ☐ Their product is of poor stainability in hematoxylin-eosin staining
- ☐ Their product is of good stainability in Masson's trichrome
- ☐ Their product is rich in glycosaminoglycans
- ☐ Their product is rich in lipids

32 Stainability of serous cells of pancreas:

- ☐ Their basal part is eosinophilic, their apical part contains strongly eosinophilic vesicles
- ☐ Their basal part is basophilic, their apical part contains strongly basophilic vesicles
- ☐ Their basal part is eosinophilic, their apical part contains basophilic vesicles
- ☐ Their basal part is basophilic, their apical part contains eosinophilic vesicles

33 What is a basal labyrinth (basal anastomosis, basal striation)?

- ☐ Folds of basal membrane associated with Golgi apparatus
- ☐ Folds of apical membrane associated with Golgi apparatus
- ☐ Folds of apical membrane associated with mitochondria
- ☐ Folds of basal membrane associated with mitochondria

34 Which type of tissue are hepatocytes?

- ☐ Derivatives of neural crest
- ☐ Derivatives of mesenchyme
- ☐ Trabecular epithelium
- ☐ Reticular epithelium

35 Liver:

- ☐ Ito's cells are modified endothelial cells
- ☐ Ito's cells store vitamin C
- ☐ Kupfer's cells are macrophages
- ☐ Kupfer's cells store vitamin A

36 Which structure is in the center of classic hepatic lobule?

- ☐ Branch of hepatic artery
- ☐ Branch of portal vein
- ☐ Bile capillary
- ☐ Central vein

37 Liver acinus:

- ☐ There is branch of hepatic artery in the middle
- ☐ There is no distinct structure in the middle
- ☐ There is branch of bile duct in the middle
- ☐ There is central vein in the middle

38 Endothelium of liver sinusoids is:

- ☐ discontinuous and without fenestrations
- ☐ continuous and without fenestrations
- ☐ discontinuous and fenestrated

☐ continuous and fenestrated

39 Which type of tissue forms the wall of bile capillaries?

- ☐ Trabecular epithelium
- ☐ Squamous epithelium
- ☐ Endothelium
- ☐ Mesothelium

40 Which layer of the wall of gastrointestinal tract does not exist in the wall of the gallbladder?

- ☐ Tunica muscularis
- ☐ Tunica submucosa
- ☐ Lamina propria
- ☐ Tunica serosa

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