

# BIOLOGY

**CLASS-XI**

**NEET**

## MODULE-01

Digestion and Absorption

| Structural Organization in Animal | Cell Unit of Life  
| Cell cycle | Transports in Plants

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Physics Wallah

# Multi-Concept Questions



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- What is the function of chylomicrons?
  - They transport endogenously synthesised triacylglycerols from the liver to the periphery.
  - They are responsible for reverse cholesterol transport, i.e., from the periphery to the liver.
  - They transport dietary fat from the intestine to the peripheral tissues.
  - They transport cholesterol esters to peripheral tissues.

- Which one of the following four secretions is correctly matched with its source, target and nature of action?

	Secretion	Source	Target	Action
a.	Gastrin	Stomach lining	Oxyntic cells	Production of HCl
b.	Inhibin	Sertoli cells	Hypothalamus	Inhibition of secretion of gonadotropin
c.	Enterokinase	Duodenum	Gall bladder	Release of bile juice
d.	Atrial Natriuretic Factor (ANF)	Sinoatrial node (SAN) and M-cells of Atria	Juxta-glomerular apparatus (JGA)	Inhibition of release of renin

- Which one of the following is not the reason for very high load of bilirubin in a newborn?
  - Excessive red blood corpuscles in the newborn burst, releasing the bilirubin
  - The liver of the newborn is too young to cope up with the heavy load of bilirubin
  - Mother's milk contain a high amount of bilirubin
  - Insoluble bilirubin in the intestine is reabsorbed by the blood
- The main digestive function of enterokinase is:
  - Conversion of casein into paracasein
  - Conversion of pepsinogen into pepsin
  - Conversion of trypsinogen into trypsin
  - Stimulation of the gastric glands to secrete gastric juices

- In mammals the teeth are
  - Of different types
  - Embedded in the cuplike socket in the jaw bones
  - Only two sets, present throughout life

The conditions are referred as:

- Heterodont, thecodont, diphyodont
- Thecodont, heterodont, diphyodont
- Diphyodont, thecodont, heterodont
- Heterodont, diphyodont, thecodont

- Dental formula of a species is represents as following :

$\frac{2123}{2123}$ . Select the incorrect statement about it:

- Upper jaw has 1 canine
- Left lower jaw is having 8 teeth
- Number of premolars in lower jaw is less than number of premolars
- Incisors are 4 in upper jaw

- Match the columns and find out the correct combination:

A. Kupffer cells	1. Salivary glands
B. Crypts of Lieberkuhn	2. Tooth
C. Serous cells	3. Liver
D. Odonotoblasts	4. Intestine

- A-1 B-3 C-2 D-4
- A-3 B-4 C-1 D-2
- A-2 B-4 C-3 D-1
- A-4 B-1 C-2 D-3

- Which of the following pairs of the kind of cells and their secretion is correctly matched?

- Oxyntic cells - a secretion with pH between 2.0 and 3.0
- Alpha cells of islets of Langerhans - secretion that decreases blood sugar level
- Kupffer cells - a digestive enzyme that hydrolyses nucleic acids
- Sebaceous glands - a secretion that evaporates for cooling

- Match the columns and find out the correct combination:

A. Salivary amylase	1. Proteins
B. Bile salts	2. Milk proteins
C. Renin	3. Starch
D. Pepsin	4. Lipids
E. Steapsin	5. Emulsification of fats

- A-5 B-4 C-1 D-2 E-3
- A-2 B-3 C-4 D-5 E-1
- A-2 B-4 C-3 D-1 E-5
- A-3 B-5 C-2 D-1 E-4

## Digestion and Absorption

10. Which one of the following statements is true regarding digestion and absorption of food in humans?
- Glucose and amino acids are absorbed through intestinal mucosa with the help of carrier ions like  $\text{Na}^+$ .
  - Chylomicrons are small lipoprotein particles that are transported from intestine into blood capillaries.
  - About 60% of starch is hydrolysed by salivary amylases in our mouth.
  - Oxyntic cells in our stomach secrete the proenzyme pepsinogen.

11. Match the columns and find out the correct combination:

A. Renin	1. Fats emulsification
B. Bile salts	2. Mucous secretion
C. Brunner's glands	3. Hydrochloric acid
D. Oxyntic cells	4. Curdling of milk

- A-2 B-3 C-4 D-1
  - A-1 B-4 C-2 D-3
  - A-2 B-4 C-3 D-1
  - A-4 B-1 C-2 D-3
12. Choose incorrect statement with respect to human digestive system.
- In our digestive system, anus is found earlier than the mouth.
  - Majority of mammals including human being forms two sets of teeth during their life.
  - Each tooth is embedded in a socket of jaw bone. This type of attachment is called thecodont.
  - The tongue is a freely movable muscular organ attached to the floor of the oral cavity

13. Match the columns and find out the correct combination:

A. Hepatic lobule	1. Sub-mucosal glands
B. Brunner's glands	2. Base of villi
C. Crypts of Lieberkuhn	3. Glisson's capsule
D. Sphincter of Oddi	4. Gall bladder
E. Cystic duct	5. Hepato-pancreatic duct
	6. Serosal glands

- A-3 B-6 C-2 D-5 E-4
- A-5 B-2 C-3 D-6 E-1
- A-3 B-1 C-2 D-5 E-4
- A-4 B-6 C-5 D-2 E-1

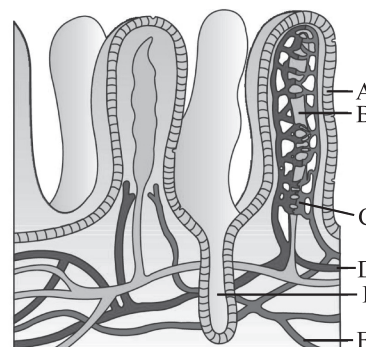
14. A person is suffering with swollen lips, thick pigmented skin of hands and legs. The most probable cause is
- Beri-beri due to the deficiency of thiamine
  - Pellagra due to the deficiency of vitamin niacin
  - Deficiency of glucocorticoids
  - Marasmus due to the deficiency of protein and carbohydrates.

15. Match the columns and find out the correct combination:

A. Sphincter of anus	1. Opening of hepato-pancreatic duct into duodenum
B. Cardiac sphincter	2. Between duodenum and posterior stomach
C. Sphincter of Oddi	3. Guarding the terminal part of alimentary canal
D. Ileocaecal sphincter	4. Between oesophagus and anterior stomach
E. Pyloric sphincter	5. Between small intestine and bowel

- A-3 B-2 C-4 D-1 E-5
  - A-2 B-5 C-1 D-4 E-3
  - A-3 B-4 C-1 D-5 E-2
  - A-4 B-3 C-1 D-2 E-5
16. Read the following statements and choose incorrect statements.
- Saliva contains a starch digesting enzyme which breaks  $\alpha$ -glycosidic bond.
  - The undigested food becomes semisolid in nature due to the absorption of water in large intestine.
  - Tongue is only used for the finding taste of food.
  - Lymph vessels ultimately release the absorbed substance into the blood stream.

17. Select the incorrect statement w.r.t this diagram:



- B is a lymph vessel
- C, D and F are blood vessels
- E is indicating intestinal gland
- A is representing the microvilli

18. Read the following statements and choose incorrect one.
- Gastric glands have parietal cells which secretes a specific factor which is essential for absorption of cyanocobalamin.
  - In omnivorous animals, length of GIT is more than carnivorous but less than herbivorous.
  - Pancreatic mucous also contain bicarbonate ions.
  - Trypsin is activated by an enzyme enterokinase, secreted by intestinal mucosa.
19. Choose wrong statement.
- Small amounts of lipases are also secreted by gastric glands.
  - Fats are broken down by lipases with the help of bile into di-and monoglycerides.
  - Bile also activates lipases.
  - Brunner's glands helps in maintaining acidic pH.
20. Consider A, B and C for oesophagus and choose option which have all correct statements for it?
- It is a thin and long tube
  - It extends anteriorly passing through neck thorax and diaphragm
  - Its upper end have huge amount of longitudinal muscles so it remains closed normally only opens at the time of swallowing
- Only A
  - Both A & B
  - A, B and C
  - A and C only
21. Read the following statement and choose incorrect one.
- Submucosal glands present in jejunum, secretes  $\text{HCO}_3^-$  to protect mucosal epithelium.
  - The bile released into the duodenum contains bile pigments, bile salts, cholesterol and phospholipids but no enzymes.
  - Excoriation of epithelium of stomach from highly concentrated HCl is protected by mucous and bicarbonates.
  - Trypsinogen is activated by an enzyme, enterokinase.
22. Read the following statements and find out the incorrect statement.
- The dorsal surface of tongue has small projections called papillae and these all bear taste buds.
  - Oesophagus opens into the cardiac part of stomach.
  - Arrangement of teeth in each half of upper and lower jaw is represented by dental formula.
  - Rectum is a small sac which hosts some symbiotic micro-organisms.
- A and D
  - B and D
  - B and C
  - A and C
23. Which one of the following statement is correct with respect to digestion in humans?
- The process of digestion is accomplished by chemical processes only
  - About 50-60% starch is digested in the mouth
  - Salivary amylase breaks starch into maltose in the mouth at slightly acidic pH.
  - About 30% maltose is broken down to glucose in the mouth itself.
24. Read the following statements carefully and choose how many statements are incorrect.
- The undigested food become solid in nature and then enters into the rectum
  - Salivary amylase digests maltose
  - Food enters into the oesophagus in the form of bolus.
  - In stomach mainly protein digestion take place.
- One
  - Two
  - Three
  - Four
25. Which of the following statements regarding small intestine are incorrect?
- Through the small intestine, there are crypts of Lieberkuhn at the base of the villi.
  - In duodenum, there are, in addition, small rounded peptic glands
  - The small intestine is strongly self-protective, by means of production of mucus and a mechanism for the rapid replacement of cells damaged by contact with food and digestive juices.
  - Each villus is richly supplied with blood capillaries only.
- A and D
  - B and D
  - C and D
  - A and B
26. Which of the following statement is correct about chylomicrons?
- Chylomicrons are produced in the epithelial cells of small intestine
  - It contains triglycerides, cholesterol and phospholipids.
  - It is protein coated small vesicle.
  - Chylomicrons released from the epithelial cells into lacteals.
- A and D
  - B and C
  - A, B, C and D
  - Only B

## Digestion and Absorption

27. Which of the following statement is incorrect?
- Faecal accumulation in the rectum initiates a neural reflex causing an urge for its removal
  - Reflex action for vomiting is controlled by medulla
  - Irregular bowel movements cause constipation
  - In diarrhoea, absorption of food is increased
28. In a person, due to certain abnormality, brush-bordered cells of intestine not developed. In this condition what would happen?
- Complete digestion of protein does not occur
  - Complete digestion of fat does not occur
  - Complete digestion of carbohydrate does not occur
  - No absorption at all
- Only A & B
  - Only D
  - Only A & C
  - All of these
29. “All the four layers shows modification in different parts of the alimentary canal”. This statement is true for
- Submucosa as in case of jejunum and ileum, it contains Brunner’s glands.
  - Serosa as in case of oesophagus, it does not contain mesothelium
  - Muscularis as in case of stomach, it contain oblique muscle layer just below the serosa.
  - Mucosa as in case of stomach, it form blunt villi and gastric glands.
30. Which of the following statement is not correct about submucosal layer of alimentary canal?
- It is made up of loose areolar connective tissue
  - It contains myenteric plexus of nerve net
  - It is richly supplied with blood capillaries and lymph capillaries
  - Both (a) & (c)
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# ABOUT PHYSICS WALLAH



Alakh Pandey is one of the most renowned faculty in NEET & JEE domain's Physics. On his YouTube channel, Physics Wallah, he teaches the Science courses of 11th and 12th standard to the students aiming to appear for the engineering and medical entrance exams.



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