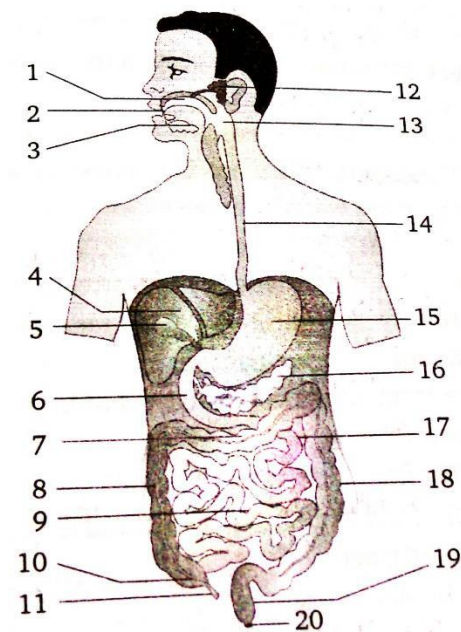

HUMAN DIGESTIVE SYSTEM

1. Which of the following is correct for human teeth?
 - (a) Thecodont but not heterodont
 - (b) Thecodont but not diphyodont
 - (c) Thecodont and diphyodont but not heterodont
 - (d) Thecodont, diphyodont and heterodont
2. Select the correct statement:
 - (a) Possession of two sets of teeth (milk teeth and permanent teeth) is characterized by the dentition called diphyodont
 - (b) Adult human have heterodont dentition, i.e., incisors, canine, premolars and molars are present
 - (c) Permanent or adult teeth are deciduous teeth
 - (d) More than one option is correct
3. The hardest substance of the human body is:
 - (a) Bone
 - (b) Calcified cartilage
 - (c) Dentine
 - (d) Enamel
4. Which of the following is incorrect?
 - (a) Duodenum is U – shaped
 - (b) Jejunum is the longest portion of small intestine
 - (c) Ileum is the coiled middle portion of small intestine
 - (d) More than one option is incorrect
5. The opening of stomach into duodenum is regulated by:
 - (a) Gastro – oesophageal sphincter
 - (b) Pyloric sphincter
 - (c) Both (a) and (b)
 - (d) Ileo – caecal sphincter
6. How many salivary glands are present in humans?
 - (a) Three
 - (b) Four
 - (c) Six
 - (d) Nine
7. Occasionally during swallowing of food, coughing starts due to the disturbed movement of:
 - (a) Diaphragm
 - (b) Jaws
 - (c) Epiglottis
 - (d) Diaphragm and jaws
8. Choose the correct statement for pancreas:
 - (a) It is a Heterocrine gland
 - (b) Endocrine part secretes glucagon and insulin
 - (c) Exocrine part secretes alkaline pancreatic juice containing various enzymes
 - (d) All of the above
9. After ingestion by humans, the first category of macromolecules to be chemically digested by the enzymes in the mouth is:
 - (a) Protein

- (b) Lipids
 - (c) carbohydrate
 - (d) Nucleic acids
10. Glandular secretions that are released initially as inactive precursors of digestive enzymes are the:
- (a) Protein digesting enzymes
 - (b) Fat – solubilizing bile salts
 - (c) Acid – neutralizing bile salts
 - (d) Carbohydrate digesting enzymes
11. 'Milk sugar' is acted upon by the enzyme:
- (a) Sucrase only
 - (b) Lactase
 - (c) Maltase
 - (d) Invertase
12. Identify the portion of digestive system where most of the digestive of fats occur:



- (a) 14
 - (b) 9
 - (c) 18
 - (d) 6 and 14
13. After the surgical removal of an infected gall bladder, a person must be especially carefully to restrict the dietary intake of:
- (a) Fat
 - (b) Protein
 - (c) Sugar
 - (d) Starch
14. Dental formula in human beings is:
- (a) $\frac{3223}{3223}$
 - (b) $\frac{2123}{2123}$

- (c) $\frac{1232}{1232}$
- (d) $\frac{2233}{2233}$

15. Stomach in vertebrates is the chief site for digestive of:
- Carbohydrates
 - Fats
 - Proteins
 - All of these
16. A young infant may be feeding entirely on mother's milk which is white in colour but the stools which the infant passes out is quite yellowish. What is this yellow colour due to?
- Pancreatic juice poured into duodenum
 - Intestinal juice
 - Bile pigments passed through bile juice
 - Undigested milk protein casein
17. One of the constituents of the pancreatic juice while poured into the duodenum in humans is:
- Enterokinase
 - Trypsinogen
 - Chymotrypsin
 - Trypsin
18. Which of the following human gastric gland is correctly matched with its secretion?
- Chief cell – Pepsinogen
 - Chief cell – Trypsin
 - Parietal cell – Trypsin
 - Mucus cell – HCl
19. What is correct for enzyme pepsinogen?
- Secreted by small intestine
 - Digest dipeptides in duodenum
 - Work in alkaline pH of intestine
 - Work in acidic pH of stomach and digest proteins
20. A: Although there is no enzyme in bile juice, yet it is required for digestion.
R: It has bilirubin and biliverdin.
- If both assertion and reason are true and the reason is the correct explanation of the assertion then mark (a).
 - If both assertion and reason are true but the reason is not the correct explanation of the assertion, then mark (b).
 - If assertion is true but reason is false, then mark (c).
 - If both assertion and reason are false statements then mark (d).
21. A: Enzymes like trypsin are created in the form of trypsinogen in pancreas.
R: Pancreas secrete zymogens to prevent the enzymes from digesting the proteins in the cells in which they are synthesized.
- If both assertion and reason are true and the reason is the correct explanation of the assertion then mark (a).
 - If both assertion and reason are true but the reason is not the correct explanation of the assertion, then mark (b).
 - If assertion is true but reason is false, then mark (c).

- (d) If both assertion and reason are false statements then mark (d).
22. The organism having parasitic mode of nutrition is:
- (a) Penicillium
 - (b) Plasmodium
 - (c) Paramecium
 - (d) Parrot
23. Which of the following is the correct statement regarding bile?
- (a) Small intestine
 - (b) Oesophagus
 - (c) Mouth
 - (d) Stomach
24. The inner lining of stomach is protected by one of the following from the harmful effect of hydrochloric acid. This is:
- (a) Pepsin
 - (b) Mucus
 - (c) Saliva
 - (d) Bile
25. Which of the following component of our food is digested by an enzyme which is present in saliva as well as in pancreatic juice?
- (a) Proteins
 - (b) Fat
 - (c) Minerals
 - (d) Carbohydrate
26. The digestive glands associated with the alimentary canal are:
- (a) Liver
 - (b) Salivary glands
 - (c) Pancreases
 - (d) All of these
27. Saliva:
- (a) Is produced by two pairs of salivary glands
 - (b) Lack enzymes
 - (c) Is produced by the salivary glands situated just outside the buccal cavity
 - (d) Is highly alkaline
28. Stomata open when guard cells are
- (a) Swollen
 - (b) Non – Swollen
 - (c) Flaccid
 - (d) Both (b) and (c)
29. Ptyalin is secreted by
- (a) Stomach
 - (b) Salivary gland
 - (c) Pancreas
 - (d) Bile
30. Amino acids are absorbed in
- (a) blood capillaries of villi
 - (b) Wall of rectum

- (c) Lacteals and blood capillaries of villi
(d) Lacteals of villi

ANSWER KEY

Ques.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.
Ans.	d	d	d	d	b	c	c	d	c	a
Ques.	11.	12.	13.	14.	15.	16.	17.	18.	19.	20.
Ans.	b	b	a	b	c	c	b	a	d	b
Ques.	21.	22.	23.	24.	25.	26.	27.	28.	29.	30.
Ans.	a	b	d	b	d	d	c	a	b	a



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