

BIOLOGY

BOOKS - SARAS PUBLICATION

DIGESTION AND ABSORPTION

Example

1. What is mechanical digestion?



2. What is chemical digestion? **Watch Video Solution** 3. What is the codont? **Watch Video Solution 4.** What is diphydont? **Watch Video Solution**

5. What is heterodont? **Watch Video Solution 6.** What is called tartar? **Watch Video Solution** 7. What is plaque? **Watch Video Solution** 8. What is papillae? **Watch Video Solution** 9. What is gullet? **Watch Video Solution** 10. What are tonsils? **Watch Video Solution** **11.** What is epiglottis?



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12. What is gastric rugae?



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13. What are crypts?



14. What is called vermiform appendix?

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15. What are the regions of colon?



16. What is Gall bladder?



17. What is hepatopancreatic duct?

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18. What is the sphincter of oddi?



19. What is digestion?



20. What is mastication? **Watch Video Solution** 21. What is deglutition? **Watch Video Solution** 22. What is peristalsis? **Watch Video Solution** **23.** Define the term chyme.



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24. What is absorption?



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25. What is facilitated diffusion?



26. What is active transport?



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27. What is micelles?



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28. How do proteins differ from fats in their energy value and their role in the body?



29. Why are villi present in the intestine and not in the stomach?



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30. Bile juice contains no digestive enzymes , yet it is important for digestion. Why?



31. List the chemical changes that starch molecule undergoes from the time it reaches the small intestine.



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32. How do proteins differ from fats in their energy value and their role in the body?

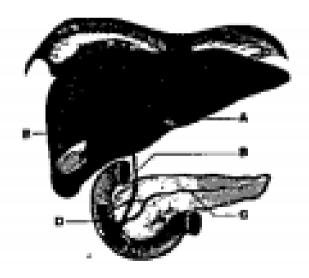


33. Digestive secretions are secreted only when needed. Discuss.



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34. Label the given diagram





35. What are the functions of food?



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36. Why do plants not require a digestive system?



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37. Explain the digestion in the stomach.



38. What is mechanical digestion?



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39. What is chemical digestion?



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40. Define Thecodont and Diphyodont.



41. Write notes on diphyodont?



Watch Video Solution

42. What is heterodont dentition?



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43. What is called tartar?



44. What is plaque?



Watch Video Solution

45. write the symptoms of gingivitis



46. What is the position of Tongue in the mouth?



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47. Arrange the following in an order Gullet, pharynx, Oesophagus, Oral cavity



Watch Video Solution

48. What is papillae?



49. What is pharynx?



Watch Video Solution

50. What is gullet?



Watch Video Solution

51. What ae tonsils?



52. What happens if the cardiac sphincter does not contract properly?



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53. What is epiglottis and what does it do?



54. What are the functions of stomach?



55. What is the function of the pyloric sphincter?



56. What are gastric rugae?



57. What are crypts of Lieber kuhn?



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58. What is called vermiform appendix?



Watch Video Solution

59. What are the regions of colon?



60. What are harstra?



Watch Video Solution

61. Write short notes on anal columns



Watch Video Solution

62. What are the layers of the alimentary canal from oesophagus to rectum?



63. Write short notes on serosa



64. Write short notes on Muscularis of alimentary canal



65. Write short notes on submucosal layer



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66. Write short notes on Mucosa



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67. What are the types of salivary glands?



68. What are the ducts present in the salivary glands?



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69. What is Glisson's capsule



Watch Video Solution

70. What is Gall bladder?



71. What is common bile duct?



72. What is hepatopancreatic duct?



Watch Video Solution

73. The sphincter of Oddi guards



74. What is mastication? Watch Video Solution **75.** What are the uses of mucus in saliva? **Watch Video Solution 76.** Deglutition refers to _____

77. What is peristalsis?



Watch Video Solution

78. What are the uses of gastrooesophageal sphincter?



Watch Video Solution

79. What is chyme?



80. Name the enzymes present int stomach?



Watch Video Solution

81. What is the role of HCl in stomatch?



82. What is the role of mucus and bicarbonates present in the gastric juice?



Watch Video Solution

83. What is the role of renin in gastric juice?



Watch Video Solution

84. What are the secretions released in to the small intestine?



85. What is succus entericus and name the enzymes present in it?



86. Name the enzymes present in intestinal juice?



87. What is active absorption?

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88. What are the process of absorption?



89. What is facilitated transport?



90. What is active absorption? **Watch Video Solution** 91. What is micelles? **Watch Video Solution** 92. Write notes on roughage? **Watch Video Solution**

93. What is the daily requirement of protein for an average Indian according to ICMR and WHO?



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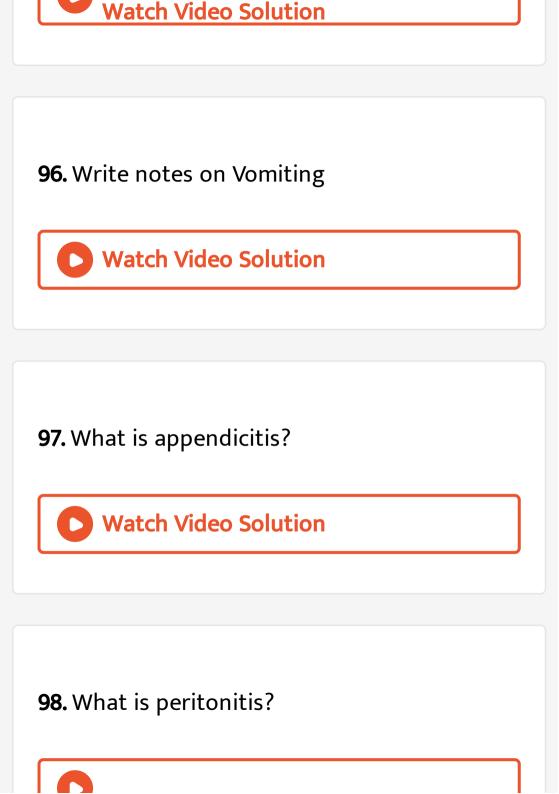
94. What is colitis and its symptoms?



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95. Write notes on constipation





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99. Assertion (A): Reduction in bicarbonate

levels leads of dissolving of tooth enamel.

Reason ("R") ": Bicarbonates in the saliva make the pH 5.4 to 7.4. If the bicarbonates level in saliva is reduced the saliva becomes acidic and the tooth enamel may get dissolved.



100. What features of the small intestine enables it to absorb digested food efficiently?



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101. Name two scientist who won the Nobel prize for the discovery of Helicobacter pylori?



102. Do you feel ill after drinking milk or after eating dairy products? Give reasons?



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103. What are the symptoms occure if the milk and diary products are broken down by bacteria?>



104. Write the function of oesophagus?



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105. What are the components of food?



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106. What are the different types of permanent teeth?



107. List the parts of Alimentary canal and the Associated glands for digestion.



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108. What is Incisor?



Watch Video Solution

109. What is canine?



110. What is premolar?



Watch Video Solution

111. What is molar?



Watch Video Solution

112. What is the function of tongue?



113. Write short notes on oesophagus



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114. Write a short note on the small intestine.



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115. Write short notes on duodenum.



116. Write short notes on Jejumum



Watch Video Solution

117. Write short notes on ileum



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118. What are Peyer's patches.



119. Write short notes on caecum



120. Write short notes on rectum



121. Write short notes on digestive glands



122. What are the types of cells in gastric glands?



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123. Mention the components of saliva.



124. Write notes on chylomicrons?



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125. The calorific value of carbohydrates is



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126. Write about the caloric values of lipids



127. Write about the caloric value of proteins



Watch Video Solution

128. Write notes on PEM



Watch Video Solution

129. Write short notes on Marasmus



130. Write short notes on Indigestion? **Watch Video Solution 131.** Write a short note on jaundice. **Watch Video Solution**

132. Define:-

Liver cirrhosis



133. Write a short note on gall stones.



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134. Define:-

Hiatus hernia



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135. Write a short note on diarrhoea.



136. Write a paragraph on peptic ulcer.



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137. Write notes on Obesity



Watch Video Solution

138. Write short notes on BMI

139. Though the bile juice of live has no digestive enzyme but is very essential for proper digestion of food, especially of the fats.

Discuss the following?

What is composition oif bile?



140. Though the bile juice of live has no digestive enzyme but is very essential for proper digestion of food, especially of the fats.

Discuss the following?

How it helps in digestion oil fats and other nutrients of food?



141. Through the bile juice of liver has no digestive enzyme but is very essential for

porper digestion of food, especially of the fats.

Discuss the following?

How it helps in absorption of fats?



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142. What would happen of HCI is not secreted in the stomach?



143. What are the harmful effects of food adulterants?



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144. What are the common food adulterants?



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145. Write a note on any two nutritional and digestive disorders.



146. Write the 5 simple things we have to do everyday to maintain a healthy balanced diet?



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147. Write the test for starch.



148. Find out a qualitative test for proteins, fats and oils, amino acids and test any fruit juice, saliva, sweat and urine for them.



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149. Write the test for glucose.



150. What are the functions of liver in the human body.



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151. Write short notes on pancreas



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152. List the role of enzymes in small intestine



153. List the chemical preservatives, artificial enhancers found in the food items available in the market. How can you avoid such harmful substances in you food?



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154. What happens to the protein molecules in food, from the time it is swallowed, to the time

its products are built up in the cytoplasm of a muscle cell.



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155. What are the harmful effects of the usage of chemical preservatives and artificial enhancers?



156. Most of the nutrients from food are digested and absorved in the small intestine why?



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157. Write notes on the digestion of carbohydrate in man



158. Write notes on the digestion of fats in man



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159. Write notes on absorpion of fats in man



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160. Explain the histology of human gut



161. Explain the structure of alimentary canal?



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162. Explain the structure of liver



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163. Write short notes on villi



Exercise

1. In small intestine, active absorption occurs in case of

A. Glucose

B. Amino acids

C. Na^+

D. All the above

Answer:

2. Which of the following hormones stimulate m production of pancreatic juice and bicarbonate?

A. Angiotensin and epinephrine

B. Gastrin and insulin

C. Cholecystokinin and secretin

D. Insulin and glucagon

Answer:

3. Asseration (A): Large intestine also shows the presence of villi like small intestine.

Reason (B): Absorption of water

A. Both A and B are true and B is the correct explanation of A

B. Both A and B are true but B is not the correct explanation of A

C. A is true but B is false

D. A is false but B is true

Answer:



- **4.** Give the dental formula of human beings
 - A. 2123/2123
 - B. 2223/2223
 - C. 2124/2124
 - D. 2122/2122

Answer:



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5. Oxyntic cells secrete

A. HCl

B. Mucus

C. Juice

D. Enzyme

Answer:



6. Bile juice contains no digestive enzymes, yet it is important for digestion. Why?



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7. What are the functions of leaf?



8. What is Epiglottis? **Watch Video Solution** 9. What is deglutition? **Watch Video Solution** 10. Define the term chyme.

11. What is micelles?



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12. Why are villi present in the intestine and not in the stomach?



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13. How do proteins differ from fats in their energy value and their role in the body?



14. Write a short note on the small intestine.



15. Write notes on PEM



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16. Write about the caloric value of proteins



17. Digestive secretions are secreted only when needed. Discuss.



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18. Explain the structure of liver



19. What are the functions of liver in the human body.



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20. Choose the incorrect sentence from the following:

A. Bile juice emulsifies the fat

B. Chyme is a digetive acidic food in stomach.

- C. Pancreatic juice converts lipid into fatty acid and glycerol
- D. Enterokinase stimulates the secreation of pancreatic juice.



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21. What is chyme?

- A. The process of conversion of fat into small droplets.
- B. The process of conversion of micelles subsatances of glycerol into fatty droplet.
- C. The process of preparation of incompletely digested acidic food through gastric juice.
- D. The process of preparation of completely digested liquid food in

midgut.

Answer:



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22. Which of the following hormones stimulate m production of pancreatic juice and bicarbonate?

- A. Angiotensin and epinephrine
- B. Gastrin and insulin

- C. Cholecystokinin and secretion
- D. Insulin and glucagon



- 23. The sphincter of Oddi guards
 - A. Hepatopancratic duct
 - B. common bile duct
 - C. Pancreatic duct

D. Cystic duct

Answer:



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24. In small intestine, active absorption occurs in case of

- A. Glucose
- B. Amino acids
- C. Na^+

D. All the above

Answer:



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25. Which one is incorrectly matched?

- A. Pepsin-stomach
- B. Renin-liver
- C. Trypsin-intestine
- D. Ptyalin-mouth



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26. Absorption of glycerol, fatty acids and monoglycerides takes place by

- A. Lymph vessels within villi
- B. Walls of stomach
- C. Colon
- D. Capillaires within villi



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- 27. First step in digestion of fat is
 - A. Emulsification
 - B. Enzyme action
 - C. Absorption by lacteals
 - D. Storage in adipose tissue

Answer:

28. Enterokinase takes part in the conversion of

- A. Pepsinogen into pepsin
- B. Trypsinogen into trypsin
- C. Protein into polypeptide Caseinogen into casein
- D. Caseinogen into casein



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29. Which of the following combinations are not matched?

Column I

a. Bilirubin and (i) intestinal juice biliverdin

b. Hydrolysis of (ii) Amylases starch

c. Digestion of fat (iii) Lipases
d. Salivary gland (iv) Parotid



30. Match column I with column II and choose

the correct option

Column I	Column II
(P) Small intest	ine (i) Largest factory
(Q) Pancreas	(ii) Absorption of
	glucose
(R) Liver	(iii) Carrying
	electrolytic
	solution
(S) Colon	(iv) Digestion and
	absorption

A. (P-iv)(Q-iii)(R-i)(S-ii)

B. (P-iii)(Q-ii)(R-i)(S-iv)

C. (P-iv)(Q-iii)(R-i)(S-ii)

D. (P-ii)(Q-iv)(R-iii)(S-i)

Answer:



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31. Match column I with column II and choose the correct option.

Column I	Column II	
(P) Small intestine	(i) 23 cm	
(Q) Large intestine	(ii) 4 meter	
(R) Oesophagus	(iii) 12.5 cm	
(S) Pharynx	(iv) 1.5 meter	

- A. (P-iv)(Q-ii)(R-i)(S-iii)
- B. (P-ii)(Q-iv)(R-i)(S-iii)
- C. (P-i)(Q-iii)(R-ii)(S-iv)
- D. (P-iii)(Q-i)(R-ii)(S-iv)



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32. Match column I with column II and choose the correct option.

Column I	Column II
(P) Lipase	(i) Starch
(Q) Pepsin	(ii) Casein
(R) Renin	(iii) Protein
(S) Ptyalin	(iv) Lipid

A. (P-iv)(Q-ii)(R-i)(S-iii)

B. (P-iv)(Q-iii)(R-ii)(S-i)

C. (P-iv)(Q-iii)(R-ii)(S-i)

D. (P-iii)(Q-ii)(R-iv)(S-i)

Answer:



33. Which is not the function of liver?

- A. Production of insulin
- B. Detoxification
- C. Storage of glycogen
- D. Production of bile

Answer:



34. Asseration (A): Large intestine also shows the presence of villi like small intestine.

Reason (B): Absorption of water

- A. Both A and B are true and B is the correct explanation of A
- B. Both A and B are true but B is not the correct explanation of A
- C. A is true but B is false
- D. A is false but B is true



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35. Which of the following is not true regading intestinal villi?

- A. They possess microvilli.
- B. The increase the surface area.
- C. They are supplied with capillaires and

the lacteal vessels

D. They only participate in digestion of fats

Answer:



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36. Intake of food is called____



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37. Breakdown of food into smaller molecules in our body is known as

38. Which one of the following is digested by caecum and vermiform appendix?

A. Protein

B. Cellulose

C. Lipid

D. Carbohydrate

Answer:



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39. The absorbed substances becoming components of cells is called-



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40. Elimination of the undigested substances is called-



41. milk teeth are present in man		
Watch Video Solution		
42. pemanent teeth are present in man.		
Watch Video Solution		
43. Gingivitis is theof the gums		

44. Chewing surface of the teeth made of _
Watch Video Solution

45. The opening of trachea is _____



46. The symptoms of GERD is

A. Lung burn

- B. Eye burn
- C. heart burn
- D. All the above



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47. _regulates the opening of oesophagus into the stomach.



48. What does GERD stand for ? What is it commonly known as ?



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49. Stomach is located in the _____portion of the abdominal cavity.



50. The vascular projections of ileal mucosa are

- A. Valves
- B. Cilia
- C. Villi
- D. Sphincter

Answer:



51. Give the dental formula of human beings

- A. 2123 / 2123
- B. 2223/2223
- $\mathsf{C.}\,2124\,/\,2124$
- D. 2122/2122

Answer:



52. Absorption of _____ is the role of castle's intrinsic factor Watch Video Solution 53. The functional unit of liver is Watch Video Solution **54.** The duct of gall bladder is called

55. The duct of liver is called-



Watch Video Solution

56. is an inflammation of the inner lining of colon



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57. duct present in the villi

58. Common bile duct is formed by tehc combination of

- A. Cystic duct+right hepatic duct
- B. Common hepatic duct+cystic duct
- C. Cystic duct+left hepatic duct
- D. Common hepatic duct + common bile duct.



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59. Which one of the following is not a common disorder associated with place? Digestive system

- A. Tetanus
- B. Diarrhoea
- C. Jaundice
- D. Dysentery



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60. The digestive gland associated with alimentary canal is ____.

- A. Pancreas
- B. Adrenal
- C. Liver
- D. Salivary gland



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61. Which is the decending sequence of human digestive track?

A. Mouth ightarrow Oesophagus ightarrow Large

intestine ightarrow Small intestine ightarrow

Rectum

B. Mouth ightarrow Oesophagus ightarrow Rectum

ightarrow Large intestine ightarrow Small intestine

C. Mouth ightarrow Oesophagus ightarrow small

intestine ightarrow large intestine ightarrow

rectum

D. Mouth ightarrow Large intestine ightarrow small intestine ightarrow rectum

Answer:



62. Where does our I	buccal cavit	y open?
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- A. Oesophagus
- B. Salivary gland
- C. Pharynx
- D. Stomach



63. Which is the largest salivary gland of human?

A. Sublingual gland

B. Parotid gland

C. Submandibular gland

D. Sub parotid gland

Answer:



64. Where is protein digestion takes place?
A. Stomach
B. Intestine
C. Large intestine
D. Rectum
Answer: Watch Video Solution
65. Hepatopancreatic duct opens into

- A. Ileum
- B. Large intestine
- C. Rectum
- D. Duodenum



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66. Liver is the largest gland and is associated with functions. Choose one which is not correct.

- A. Stores fat soluble vitamins and iron.
- B. Detoxifes toxic substances
- C. Secretion of hormone called gastric
- D. Stores glucose in the form of glycogen



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67. Success entericus is the name give to

A. A junction between ileum and large intestine

B. Intestinal juice

C. swelling in the gut

D. Appendix

Answer:



68. Match the column I with column II and select the correct option



- A. A-iv,B-i,C-ii,D-iii
- B. A-iv,B-iii,C-iv,D-ii
- C. A-ii,B-i,C-iv,D-iii
- D. A-iii,B-i,C-ii,D-iv

Answer:



69. By which structure tongue is attached with lower region of buccal cavity in human?

- A. Bony
- B. Muscular
- C. Frenulum
- D. Fibrous

Answer:



70. Brunner's glands are seen in the	
--------------------------------------	--

- A. The wall of the duodenum
- B. The wall of the stomach
- C. The wall of the oesophagus
- D. The wall of the ileum



71. Which one of the following is a protein deficiency disease?

- A. Kwashiorkor
- B. Nigh Blindness
- C. Eczema
- D. Cirrhosis

Answer:



72. Which of the following carries glucose from digestive tract to liver?

A. Plumonary vein

B. Hepaic artery

C. Hepatice portal vein

D. None of these

Answer:



73. Which of the following is mismatched?

A. Haustra-Pouch like dilation in the colon

B. Stensen's duct-Duct of parotid

C. Wharton's duct-Duct of pharynx

D. Goblet cells-Mucus secreting glands

Answer:



74. Villi are present in

- A. Heart
- B. Liver
- C. Pancreas
- D. Ileum

Answer:



- A. Bile
- B. Pancreatic juice
- C. Gastric juice
- D. All the above



76. Which of the following converts proteins into peptones?

- A. Lipase
- B. Amylase
- C. Trypsin
- D. Peptidase

Answer:



77. The stomach of	opens	into
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- A. Large intestine
- B. Small intestine
- C. Colon
- D. Caecum



78. Which of the following converts carbohydrates onto maltose

- A. Lipase
- B. Amylase
- C. Trypsin
- D. Pepsin

Answer:



79. The	second	part	of	the	large	intestine	is
called							
A. Ile	eum						

B. Caecum

C. Rectum

D. Colon

Answer:



80. Bile is stoed in a sac called

- A. Caecum
- B. Colon
- C. Gall bladder
- D. Pyloric sphincter

Answer:



81. The first part of the small	intestine i	is called
--	-------------	-----------

- A. Ileum
- B. colon
- C. Caecum
- D. Duodenum



82. Arrange the correct sequence of the steps involved in the process of human digestive system.

A. Digestion
$$ightarrow$$
 ingestion $ightarrow$

Assimilation
$$ightarrow$$
 Egestion $ightarrow$

Absorption

B. Ingestion ightarrow Digestion ightarrow Absorption

$$ightarrow$$
 Assimilation $ightarrow$ Egestion

C. Egestion ightarrow Digestion ightarrow Assimilation

$$ightarrow$$
 ingestion

D. Assimilation ightarrow Absorption ightarrow

Ingestion ightarrow Digestion.

Answer:



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83. Name the largest part of the alimentary canal

A. Large intestine

B. Small intestine

C. Liver

D. Stomach

Answer:



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84. Liver stores glucose in the form of

A. Pulp

B. Cellulose

C. Glycogen

D. Glucagon

Answer:



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85. Bilirubin and biliverdin are present in

A. Pancreatic juice

B. Saliva

C. Bile

D. Intestinal juice



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86. The walls of the large intestine absorb which of these?

- A. Cellulose
- B. Digested food
- C. Oxygen
- D. Water



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87. Match the following and select the correct option

Column I Column II .

A-Villi - i) Large intestine

B- Hydrochloric - ii) Liver

C- Bile - iii) Small intestine

D- Absorption - iv) Stomach of water

A. A-iii,B-i,C-iv,D-ii

- B. A-iii,B-iv,C-ii,D-i
- C. A-ii,B-i,C-iv,D-iii
- D. A-iv,B-iii,C-ii,D-i



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88. ICMR stands for

A. Indian Council of Medical Research

B. International Council of Medical

Research

C. Indian Council of Multimedia Research

D. International Centre for Medical

Research

Answer:



89. Name the hardest material present in the body

- A. Dentin
- B. Pulp
- C. Enamel
- D. None of these

Answer:



90. Which one of the following is not a digestive disorder

- A. Vomiting
- B. Diabetes
- C. Indigestion
- D. Marasmus

Answer:



91.	Reverse	peristalsis	refers to	0	.
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- A. Constipation
- B. Indigestion
- C. Vomiting
- D. Diarrhoea



- 92. ____treatment is common for diarrhoes
 - A. Oral hydration
 - **B.** Medications
 - C. Surgery
 - D. Regular exercise



93. Name the bacteria which causes peptic ulcer.

- A. Haemophilus pertussis
- B. Helicobacter pylori
- C. Helicobacter canis
- D. Helicobacter brantae

Answer:



94. Which one of the following is not a causative factor of peptic ulcerS?

A. Uncontrolled usage of aspirin

B. Uncontrolled usage of drugs

C. Helicobacter pylori

D. Uncontrolled usage of fibrous food

Answer:



95. enzyme helps to	digest protein.
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- A. Protease
- B. Lipase
- C. Amylase
- D. Maltase



96. Select the odd one

- A. Gastritis
- B. Heart burn
- C. Bronchitis
- D. Obesity

Answer:



- **97.** Identify the correct statements from the below about "salivary glands" .
- (I) Four pairs of salivary glands in the mouth .
- (II) Largest parotids gland in the cheeks.
- (III) The sub maxillary / sub mandibular in the lower jaw and the sub lingual beneath the tongue .
- (IV) Daily secretion of saliva from salivary glands ranges from 1000 to 1500 ml .
 - A. 100-150 ml
 - B. 1000-1500 ml

C. 10-50 ml

D. 10000-15000 ml

Answer:



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98. Oxyntic cells secrete

A. HCl

B. Mucus

C. Juice

D. Enzyme

Answer:

