



# **BIOLOGY**

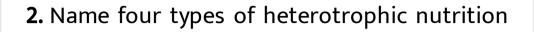
# **BOOKS - MODERN PUBLICATION**

# **DIGESTION AND ABSORPTION**



1. How do autotrophic and heterotrophic

nutrition differ from each other ?



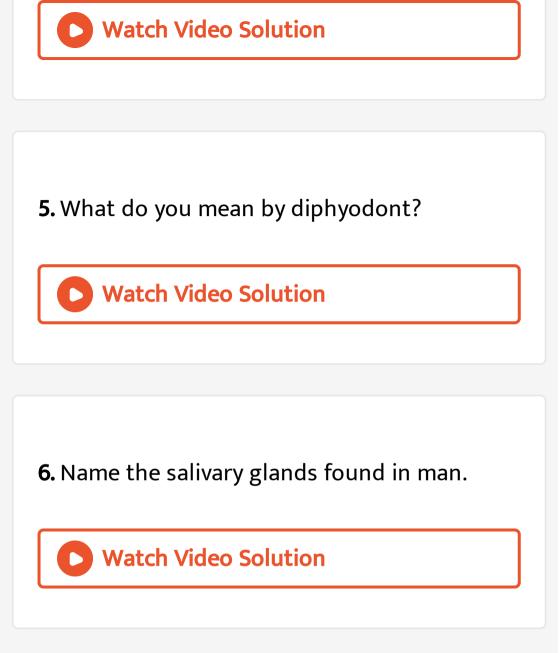
on the basis of nature of food.



### 3. Write a note on saprophytic nutrition.



4. Define digestion?



7. Which structure closes the internal nares

duringg swallowing of food bolus?

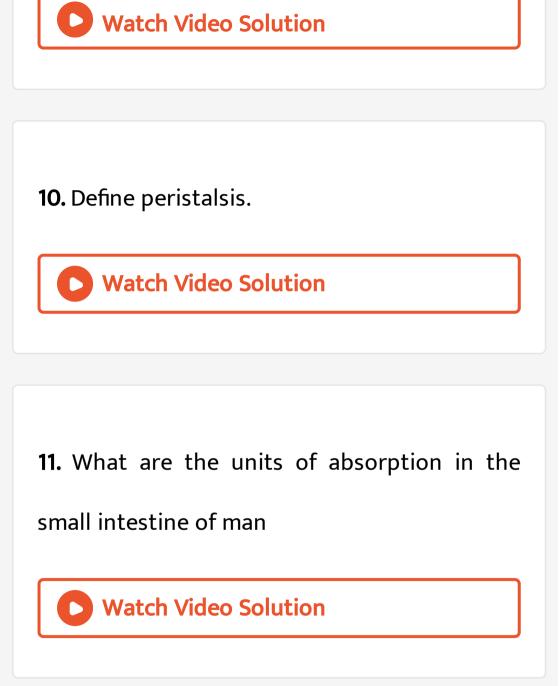
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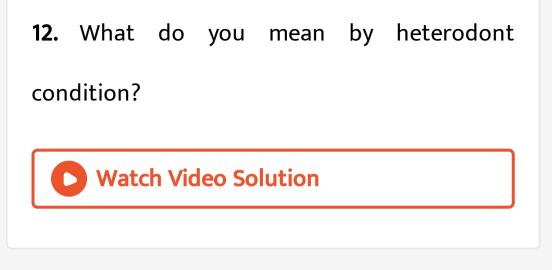
8. Why does the food bolus not enter into the

wind pipe during swallowing?

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9. Give the dental formula of human baby





## 13. How many salivary glands are located in

man?



**14.** Name the largest gland of human body.



### 15. Name two types of intestinal glands of

man.

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### **16.** What do you mean by malnutrition?

17. Which state of india has maximum under-

nourished cases.

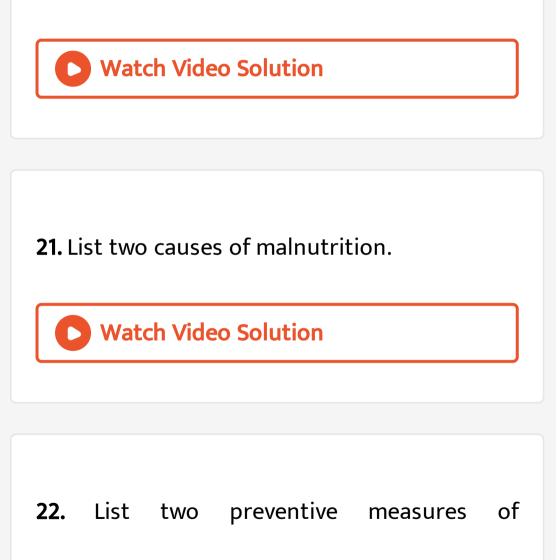
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18. Name four form of malnutrition.

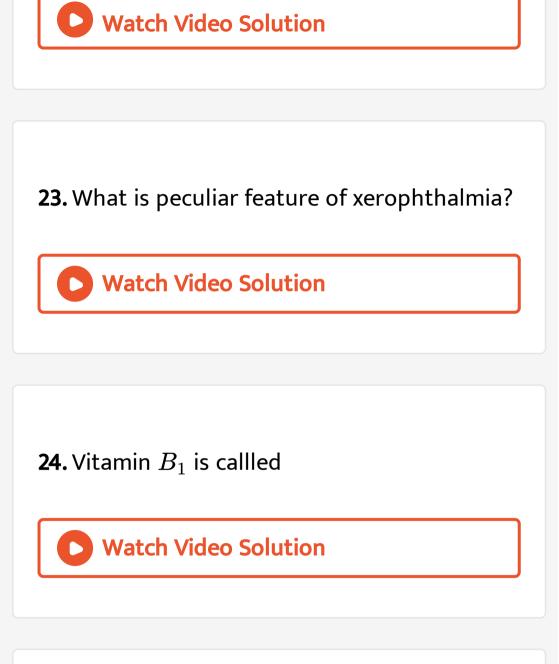
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**19.** Give the full form of PEM.

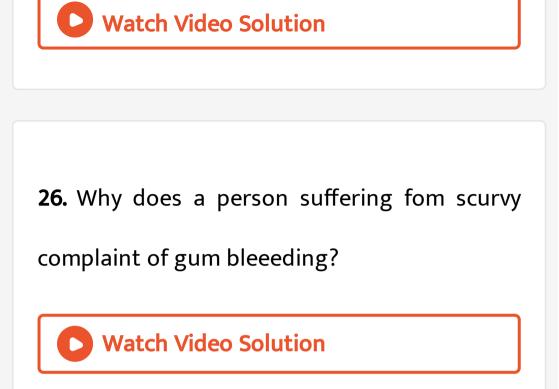
### **20.** Name two diseases associated with PEM.



malnutrition



**25.** What is causative agent of simple goiter?



### **27.** What is ill effect of dehydration?



28. Name the dieseases associated with deficeincy and excess of fluoride.
Watch Video Solution

29. Name two deficiecny diseases associated

with deficiency of vitamin-D

30. Name two vitamins requied for the maturation of erythrocytes.Watch Video Solution

**31.** Which one of the following hydrolyses internal phosphodiester bonds in a polynucleotide chain?

A. Lipase

B. Exonuclease

C. Endonuclease

D. Protease

### **Answer:**



**32.** Enzymes, vitamins and hormones can be classified into a single category of biological chemicals, because all of these:

A. Entrance oxidative metabolism

- B. Are conjugated proteins
- C. Are exclusively synthesized inside the

body

D. Help in regulating metabolism

Answer:

Watch Video Solution

**33.** Epightelial cells of intestine involved in food absorption have on their surface:

A. Pinocytic vesicles

B. Phagocytic vesicles

C. Zymogen granules

D. Microvilli

### **Answer:**

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34. Secretin and cholecystokinin are digestive

hormones .These are secreated by

### A. Oesophagus

B. Ileum

C. Dudoenum

D. Pyloric stomach

### Answer:

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**35.** A pateint is generally advised to specially consume more meat ,lentils,milk and eggs in diet only when he suffers from

A. Scurvy

- B. Kwashiorkor
- C. Rickets
- D. Anaemia

### **Answer:**

Watch Video Solution

**36.** Oxyntic cells secrete:

### A. HCI

B. NaOH

C. Pepsin

D. Trypsin

### Answer:

Watch Video Solution

37. Crown of teeth is covered by:

A. Dentine

B. Enamel

C. Both(a) and (b)

D. None of these

### Answer:



**38.** Cud-chewing animals are called:

A. Ruminnts

B. Cannibals

C. Frugivorses

D. Sanguivores

### Answer:

Watch Video Solution

# **39.** Which of the following vitamins is water soluble as well as antioxidant?

A. Vitamin B

B. Vitamin A

C. Vitamin D

### D. Vitamin C

### Answer:

Watch Video Solution

**40.** The gastric juice contains proteinssplitting enzymes namely:

A. Pepsin and rennin

B. Pepsin and trypsin

C. Rennin and amylase

D. Trypsin and chymotrypsinogen.

### Answer:

Watch Video Solution

# **41.** How many teeth appear twice during the life span of an individual?

A. 16

B. 32

C. 22

D. 20

### Answer:

Watch Video Solution

**42.** Most common protein and carbohydrate found in cow's milk are :

A. Albumin, lactose

B. Globulin casein

C. Casein, lactose

D. Casein, fructose.

### Answer:

Watch Video Solution

### **43.** Essentially the word digestion means:

- A. burning of food
- B. oxidation of food
- C. hydrolysis of food
- D. breakdown of food

### Answer:



**44.** The main function of larteals in the villi of small intestine is the absorption of:

A. Glucose and vitamins

B. Water and minerals slats

C. Fatty acids and glycerol

D. Amino acids and glucose.

### Answer:



**45.** The macronutrients which is an essential component of all organic compounds, yet not obtained by plants from soil is:

A. Carbon

B. Nitrogen

C. Phosphorus

D. Magnesium





**46.** Salivary amylase is also known as:

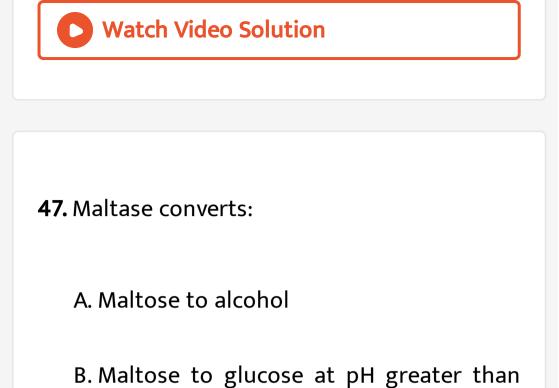
A. Gastrin

B. Ptyalin

C. Glyoxylase

D. pepsin

Answer:



7.0

- C. Maltose to glucose at pH lesser than 7.0
- D. Strach to maltose

#### **Answer:**





48. Wisdom teeth are:

A. Last molars

B. Last premolars

C. incisors

D. Canines

### Answer:

**49.** Fill in the blank

Cholecystokinin stimulates the secretion of

A. Pancrease

. . . . . . . . . . . . . . . .

B. Gall bladder

C. Secrete bile

D. None of these

### Answer:

50. Digestion of cellulose in rabbit takes place

in:

A. Caecum

B. Colon

C. Rectum

D. lleum

**Answer:** 

### **51.** Peptic cells secrete:

### A. HCI

- B. Cholecystokinin
- C. Gastrin
- D. Pepsinogen

### Answer:



**52.** Caloric value for carbohydrates ,proteins and fats:

A. 50 cal,4.68 cal and 80 cal respectively

B. 40 ca.,80 cal and 100 cal respectifvely

C. 4.1 Kcal ,5.65 Kcal and 9.45

kcalrespectively

D. 5.6 Kcal,100 Kcal and 30 Kcal respectively

Answer:

**53.** Which of the following is called as a detrivore?

- A. An animal feeding on plants
- B. A plant feeding on a animal
- C. An animal feeding on another anjimal
- D. An animal feedng on decaying organic

matter

Answer:

**54.** Saprophytic and parasitic modes of nutrition are found in:

A. Bacteria

**B.** Viruses

C. Fungi

D. Both(a) and (c)

Answer:

**55.** For the absorption of digestive material structures present in epithelium of digestive tract are:

- A. Zymogenic granules
- B. Microvilli
- C. Peyer's patches
- D. None of these

## Answer:



56. Erthrocytic maturing factor is:

A. Folic acid

B. Vitamin C

C. Vitamin  $B_2$ 

D. Cyanocobalamine.

#### Answer:

57. Enzyme rennin used in digestion is

secreted from:

A. intestine

B. Stomach

C. Liver

D. Pancreas

**Answer:** 

58. Fat soluble vitamin is:

A. A

 $\mathsf{B}.\,B_6$ 

C. Liver

D.  $B_{12}$ .

**Answer:** 

59. Which of the following is the largest gland

in an adult man?

A. Thymus

B. Liver

C. Thyroid

D. Pancreas

**Answer:** 

60. In which of the following, putrefying

bacteria are present?

A. Intenstine

B. Colon

C. Stomach

D. Liver

Answer:

**61.** Which one of the following paris of the kind of cells and their secrection is correctly matched?

A. Oxyntic cells-a secretion with pH
between 2 to 3
B. Alpha cells of islets of Langerhanssecretion which decreases blood sugar
level

C. Kupffer cells - a deigestive eznyme that

hydrolyses nucleic acids

## D. Sebaceous glands- a secretion that

evaporates for cooling

#### **Answer:**

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**62.** pH of saliva is :

A. 6.8

B. 8

C. 7

D. 9.5

#### Answer:

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## 63. Liver is able to manufacture vitamin:

A. A

**B.** B

C. K

D. D





# **64.** Food bolus after passsing through alkaline medium is:

A. Chyle

B. Chyme

C. Chylomicron

D. Fat body

## Answer:



**65.** Alimentary canal of herbivorous animal differs from that of a carnivore in having:

A. Short alimentary canal

B. Long alimentary canal

C. Wide alimentary canal

D. Thin alimenatary canal





**66.** Yellow colour of faeces is due to :

A. Bile secretion

- B. Green colour of bile juice
- C. Degradation products of hemoglobin
- D. Excessive diet of turmeric

Answer:



**67.** Chief cells of gastric glands are:

- A. Simple tubular
- B. Coiled tubular
- C. Branched tubular
- D. Compound tubular

## Answer:

68. Give the dental formula of human beings.

A. 3142/3143

B. 1003 / 0003

C. 2123/2123

D. 3143 / 3143.

#### Answer:

**69.** Heterotrophic nutrition includes:

A. Saprophytic

**B.** Parasitic

C. Carnivorous

D. All of these

Answer:

**70.** Mitosis occurs in:

A. Amphioxus

**B.** Insects

C. Paramecan

D. hydra

**Answer:** 

**71.** Which one is correctly matched?

A. Vitamin-E:Thiamine

B. Vitamin-D:Riboflavin

C. Vitamin- $B_1$ :Tocopherol

D. Vitamin-A:Calciferol

Answer: Vitamin- $B_{12}$ :Cyanocobalamine

**72.** Which of the following is a fat - soluble vitamin and its related deficiency disease?

A. Calciferol-Pellagra

B. Ascorbic acid-Scurvy

C. Retinol-Xeropthalmia

D. Cobalamine-Beri-beri

## Answer:

**73.** Continued consumption of a diet rich in butter,red meat and eggs for a long period may lead to:

A. Vitamin A toxicity

B. Kidney stones

C. Hypercholesterolemia

D. urine laden with ketone bodies

## Answer:

74. Among mammals, a significant role in the

digestion of milk is played by:

A. Rennin

B. Invertase

C. Amylase

D. Intestinal bacteria

## Answer:

75. A person suffering from deficiency of visual

pigment rhodopsin is advised to take more of:

A. Radish and potato

B. Apple nd grapes

C. Carrot and ripe papaya

D. Guava and ripe banana.

#### Answer:

**76.** Amylopsin acts upon:

A. Polysaccharide in any medium

B. Polysaccharide in acidic medium

C. Polysaccharide in alkaline medium

D. All of these

Answer:

**77.** Which of the following are fat soluble vitamins?

A. retinol

B. Calcifoerol

C. Tocohperol

D. Riboflavin

## Answer:

**78.** Duodenum has characterstic Brunner's glands which secrete two hormones called:

A. Kinase,estrogen

B. Secretin, cholecystokinin

C. Prolactin, parathormone

D. Estradion, progesterone

Answer:

**79.** Which one of the following is the correct matching of a vitamin, its nature and its deficiency?

A. Vitamin-A-Fat soluble, night blindness

B. Vitamin-K-Fat soluble,Beri-beri

C.

D.

Answer:

80. Which is correct: Vitamin-A - Fat soluble,Beri-beri; Vitamin-K-Water soluble,Pellagra



## **81.** Pepsinogen is secreted by:

A. Chief cell

B. Oxyntic cell

C. Mast cell

D. Parietal cell

## Answer:

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82. Degestive enzymes are:

A. Hydrolases

**B. Oxidoreductases** 

C. Transfereaes

D. Lyases





83. Blood clotting vitamin is:

A. Vitamin-K

B. Vitamin-A

C. Vitamin- $B_{12}$ 

D. Vitamin- $B_6$ .

Answer:



**84.** IAA is derived from or which of the following is involved in the synthesis of a plant hormone IAA and V association serotonin?

A. Vitamin-A

B. Vitamin- $B_1$ 

C. Vitamin- $B_6$ 

D. Vitamin-K





## **85.** Epightelial cells of intestine involved in food absorption have on their surface:

A. Pincoytic vesicles

B. Phagocytic vesicles

C. Zymogen granules

D. Microvilli







**86.** A pateint is generally advised to specially consume more meat ,lentils,milk and eggs in diet only when he suffers from

A. Kwashiorkor

**B.** Rickets

C. Anaemi

D. Scurvy

## Answer:





## 87. Secretin and cholecystokinin are digestive

hormones .These are secreated by

A. Oesophagus

B. Ileum

C. Duodenum

D. Pyloric stomach

## Answer:

**88.** Which of the follwing enzyme digests proteins in stomach?

A. Trypsin

B. Pepsin

C. Erepsin

D. None of these

Answer:

**89.** Passive food ingestion in Amoeba occurs by:

A. Import

B. invagination

C. Circumfluence

D. Circumvallation

## Answer:

90. Which part of our body secretes the

hormone secretin?

A. lleum

B. Stomach

C. Duodenum

D. Oesophagus

#### Answer:

91. Diastema is associated with:

A. Organ of Corti

B. Retinal cells

C. Presence of certain teeth

D. Absence of certain teeth

Answer:



92. Medium in which pepsin is active:

A. Neutral

- B. Alkaline
- C. Acidic
- D. Isotonic

#### Answer:



**93.** Vitamin-D is produced in human body by:

# A. Skin

B. Nerves

C. Muscles

D. None of these

## Answer:

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94. Succus entericus is secreted by:

A. Crypts of Lieberkuhn

B. Brunner's glands

C. Both of these

D. None of these

## **Answer:**



# 95. Which of the following i a water -soluble

vitamin?

A. Vitamin-A

B. Vitamin-B

C. Vitamin-D

D. Vitamin-E

## Answer:



96. Find out the corrctly mathced pair:

A. Pepsinogen=Zymogenic cells

B. HCI=Goblet cells

C. Mucus=Oxyntic cells

# D. Pancreatic juice=Salivary glands

## Answer:

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# 97. Give the dental formula of human beings.

A. 2033 / 1023

B. 2133 / 1023

C. 2023/2023

D. 1303 / 1203.





**98.** Digestion of protein is completed in:

A. Stomach

- B. Duodenum
- C. Ileum
- D. Duodenum & ileum

Answer:



# **99.** Part of bile juice useful in digestion is:

A. Bile salts

B. Bile pigments

C. Bile matrix

D. All of these

Answer:

**100.** Enterogastrone is:

A. Hormone secreted by gastric mucosa

B. Enzyme secreted by mucosa

C. Hormone secreted by duodenal mucosa

D. Secreted by endocrine gland related to

digestion.

Answer:

101. Bile secretion is proportional to

concentration of:

A. Proteins

B. Fats

C. Carbohyrates

D. None of these

#### **Answer:**

102. Secretion of pancreatic juice is stimulated

by:

A. Gastrin

- B. Secretin, cholecystokinin
- C. Enterogstgron
- D. Enterokinase

# Answer:



**103.** Kwashiorkor disease occurs due to deficiency of:

A. Proteins

B. Fats

C. Sugars

D. Hormone

**Answer:** 

**104.** Carbohydrate digestion first occurs in:

A. Mouth

B. Intestine

C. Stomach

D. None of these

Answer:



**105.** Enzyme pepsin acts in:

A. Acidic medium in the pancreas

# B. Acidic medium in stomach

C. Intestine

D. Mouth

#### Answer:



**106.** What will happen if the secretion of parietal cells of gastric glands is blocked with an inhibitor?

A. In the absence of HCI secretion inactive pepsinogen is not converted into active enzyme pepsin B. Gastric juice will be deficient in chymosin C. Enterokinase will not be released from duodenal mucosa so trypsinogen is not converted to trypsin D. Gastric juice will be deficient in pepsinogen



**107.** Examination of blood of a person suspected of having anemia, shows large,immatrue,nucleated,erthy6rocytes with out hemoglobin. Supplementing the diet with which of the following is likely to alleviate these symptoms?

A. Thiamine

B. Folic acid and cobalamine

C. Riboflavin

D. Iron compounds

## Answer:

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**108.** Which one of the following pairs is not correctly matched?

A. Vit. $B_{12}$  - Pernicious anaemia

B. Vit. $B_6$ -Loss of appertite

C. Vit. $B_1$ -Beri Beri

D. Vit. $B_2$  - Pellagra

#### Answer:

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**109.** Which one of the following is a matching pair of a certain body feature and its value/count in a normal human adult

A. Urea:5-10mg/100ml of blood

B. Blood

sugar(Fasting):

70-100 mg/100 ml

C. Total blood volume :5-6 toitres

D. ESR(Wintrobe method):9-15 mm in male

and 20-34 mm in females

Answer:

**110.** people recovering from long illness are often advised to include the alga Spirulina in their diet because it:

A. Makes the food easy to digest

B. Is rich in proteins

C. Has anitbiotic properties

D. Restores useful intestinal microflora

## Answer:

**111.** Which one of the following pairs of the kind of cells and their secretion is correctly matched?

A. Oxyntic cells-a secretion with pH
between 2 to 3
B. Alpha cells of islets of Langerhanssecretion which decreases blood sugar
level

C. Kupffer cells - a digestive enzyme that

hydrolyses nucleic acids

# D. Sebaceous glands- a secretion that

evaporates for cooling

#### **Answer:**

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# **112.** Bile secretion is proportional to concentration of:

A. Proteins

B. Fats

C. Carbohyrates

D. None of these

#### **Answer:**

Watch Video Solution

# **113.** Secretion of pancreatic juice is stimulated

by:

A. Gastrin

**B.** Enterogastron

C. Secretin

D. Enterokinase

## Answer:



# 114. "Crypts of Lieberkühn" are found in:

- A. Gall bladder
- B. Liver
- C. Pancrease

# D. Intensitne

## Answer:

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# **115.** "Glisson capsule" is associated with:

A. Liver

**B.** Pancreas

C. Lung

D. Kidney

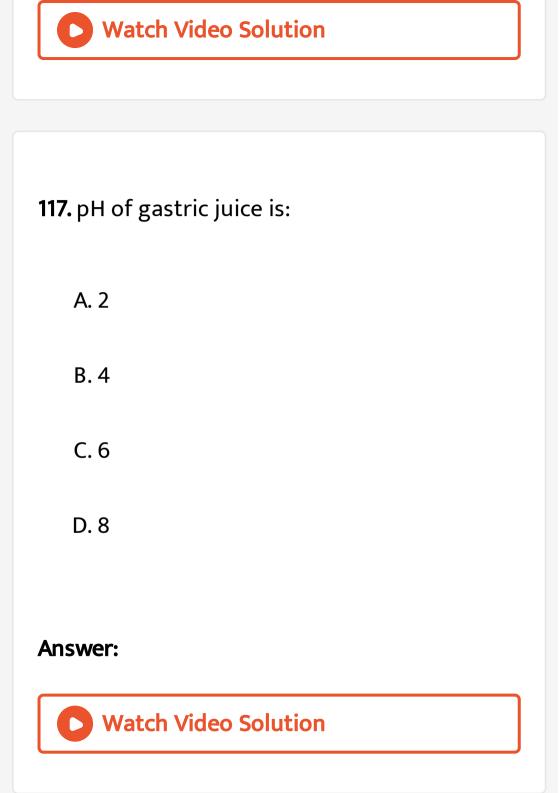




**116.** Man function of enterokinase is:

- A. Conversion of casein into paracasein
- B. Conversion of pepsinogen into pepsin
- C. Conversion of trrypsinogen into trypsin
- D. Conversion of trypsin into trypsinogen





**118.** In humans, sphincter of Oddi is associated with the opening of:

A. Hepatopancreatic ampulla

B. Pyloric stomach

C. Oesophagus

D. Common hepatic duct

## Answer:

119. Which of the following hormones helps in

secretion of HCI from stomach?

A. Renin

B. Gastrin

C. Secretin

D. Somatomedin

## Answer:

**120.** The organ in the human body where glycogenolysis takes places is:

A. Muscle

B. Liver

C. Small intenstine

D. Kidney

Answer:

**121.** Which of the following vitamins are fat soluble?

A. A,B,C,K

B. A,B,D,E

C. A,D,EK

D. A,D,C,K

## **Answer:**

**122.** Which one of the following pairs of food components in human reaches the stomach totally undigested?

A. Protein and starch

B. Starch and fat

C. Fat and cellulose

D. Starch and cellulose

## Answer:

**123.** When breast feeding is replaced by less nutritive food low in protiens and calories in infants below the age of one year, they are likely to suffer from:

A. Marasmus

**B.** Rickets

C. Kwashiorkar

D. Pellagra

Answer:

**124.** Which one of the following statement is true regarding digestion and absorption of food in humans?

A. Oxyntic cells-a secretion with pH

between 2 to 3

B. Fructose jand amino acids are absorbed

through intestinal mucosa ith the help

of carrier ions likje  $Na^+$ .

C. Chylomicrons are small are small lipoprotein particles that are transported from intensitne into blood capillaries

D. About 60% of starch is hydrolysed by

slivary amylase in our mouth.

Answer:

**125.** A young infant may be feeding entirely on mother's milk, which is white in colour but the stools, which the infant passes out, are always yellowish . What is this yellow colour due to?

A. Intenstinal juice

- B. Bile pigments passed through bile juice
- C. Pancreatic juice poured into duodenum
- D. Undigested milk protein casein

#### Answer:





**126.** Lipids, which can be found in oil-based salad dressings and ice-creams, during digestin are spilitted into:

A. Fatty acid and glycerol

B. Glycerol and amino acids

C. Glucose and fatty acid

D. Glucose and amino acids

#### Answer:



**127.** The pH of the digestive juices within the human small intestine is beween 7.5 and 8.5 .This envitonment is slightyly:

A. Basic

B. Acidic

C. Nutral

D. None of these

#### Answer:



## **128.** Thiamine $(B_1)$ deficiency results in:

- A. Wernicke's syndrome
- B. Korsakoff's sundrome
- C. Osteonerosis
- D. Tunnel vision.

#### Answer:

**129.** FAD is a coenzyme derived from

A. Thiamine

B. Ribloflavin

C. Vitamin- $B_{12}$ 

D. Niacin

Answer:

**130.** The food that enters intestine from stomach is called:

A. Chyle

B. Chyme

C. Fundus

D. None of these

#### Answer:

**131.** A protein deficiency disease is:

A. Kwashiorkar

B. Marasmus

C. Pellagra

D. 'Osteomalacia

Answer:



**132.** Vitamin K is required for:

- A. Converting prothrombin to thrombin
- B. Synthesis of prothrombin
- C. Calcium combination with prothrombin
- D. All of these

#### Answer:

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**133.** In ileum, which of the following is absorbed?

A. Vitamin K

B. Bile salts

C. Glucose

D. Fat body

#### **Answer:**

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134. Gastric enzymes are:

A. Pepsinogen

B. Prorennin

C. Gastric lipase

D. All of these

Answer:

Watch Video Solution

135. Osteomalacia occurs due to deficiency of:

A. Vitamin-A

B. Vitamin-B

C. Vitamin-D

D. Vitamin-E

#### **Answer:**



### 136. Pellagra is casued by the deficiency of:

A. Pyridoxine

B. Folic acid

C. Biotin

### D. Niacin

#### Answer:

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## **137.** Which one of the following is not true about vitamins?

A. Vitamins are organic catalysts

B. Vitamins are indispensible for life

C. Vitamins act as source of energy

### D. Tocopherol is anti - sterility vitamin

#### Answer:

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### 138. Oxyntic cells secrete:

A. HCI

B. Trypsin

C. NaOH

D. Pepsinogen





# **139.** Glisson's capsule is found in which organ of mammals?

A. Stomach

B. Kidney

C. Testis

D. Liver

#### Answer:



**140.** If for some reason, the parietal cells of gut epithelium become partially non-functional , what is likely to happen?

A. The pancreatic enzymes, especially

trypsin and lipase will not work efficiently

B. The pH of stomach will fall abruptly

C. The steapsin will be more effective

D. The proteins will not be efficiently

hydrolysed by pepsin into proteoses and

peptones

Answer:

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**141.** Jaundice is a disorder of:

A. Excretory sytem

B. Skin & eyes

C. Digestive system

D. Circulatory system

#### Answer:

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142. Brunner's glands are present in :

A. Liver

B. Duodenum

C. Oesophagus

D. Stomach

#### **Answer:**

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143. The sugar present in milk is:

A. Fructose

B. Sucrose

C. Glucose

#### D. Lactose

#### Answer:

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**144.** Which one of the following is not the reason for very high load of bilirubin in a newborn?

A. Excessive red blood corpuscels in the newborn burst ,releasing the bilirubin

B. The liver of the newborn is too young to

cope up with heavy load of bilirubin

C. Mother's milk contains a high amount of

bilirubin

D. Insoluble bilirubin in the intestine is

reabsorbed by blood

Answer:

**145.** Succus entericus is secreted by:

A. Auerbach's plexus

B. Brunner's glands

C. Peyer's pathce

D. Crypts of Liberkuhn

Answer:

**146.** In rabbit, cellulose digestion occurs in:

A. lleum

B. Duodenum

C. Stomach

D. Caecum

Answer:

**147.** Sacculus rotundus is present in :

A. Duodenum of rabbit

B. lleum of frog

C. lleum of rabbit

D. Colon of rabbit

Answer:

148. Biotrophic nutrition is shown by:

A. Humans

B. Saprophytic plants

C. Invertebrates

D. Insectivorous plants

Answer:

**149.** Which of the following statements is correct?

A. Argentaffin cells prodcue serotonin

B. Vilikinin is secreted by large intestine

C. In cheilosis, deficient nutrient is

nicotinamide

D. Bleeding disease occurs due to

deficiency of vitamin -E







**150.** Aggregates of lymphiod tissue present in

distal part of small intestine are called:

A. Villi

B. Peyer's pathces

C. Rugae

D. Choroid plexus

Answer:

**151.** Which of the followingg vitamins has same physioological effects as of parathomone:

A. Vitamin-A

B. Vitamin-D:

C. Vitamin-C

D. Vitamin-B

Answer:

**152.** Bile contribution to digestion is:

A. Nucelic acid metabolism

B. Phagocytosis

C. Emulsification of dietary fats

D. Carbohydrate digestion

Answer:

**153.** Gastric juice has a pH of about:

A. 1

B. 2

C. 6

D. 10

**Answer:** 

154. Osteomalacia occurs due to deficiency of:

A. Vitamin-C

- B. Vitamin-D:Riboflavin
- C. Thyroid homone
- D. Growth homone

Answer:

155. Which of the following causes contraction

of gall bladder?

A. Cholecystokinin

B. Gastrin

C. Pepsin

D. Secretin

Answer:

156. Give the dental formula of human beings.

A. 2123/2123

B. 2123 / 1223

C. 1223 / 2123

D. 1223 / 1223.

#### Answer:



**157.** The gastric juice contains:

- A. Trypsin,Pepsin,Lipase
- B. Pepsin,Lipase,Rennin
- C. Pepsin, Amylase, TRypsin
- D. trypsin,Pepsin,REnnin

#### Answer:

Watch Video Solution

**158.** Vitamin-D is produced in human body by:

## A. Muscle

B. nerves

C. Skin

D. Bone marrow

#### Answer:

Watch Video Solution

# **159.** Name the hormone that stimulates the secretion of gastric juice:

A. Renin

B. Enterokinase

C. Enterogasterone

D. Gastrin

#### Answer:

Watch Video Solution

# **160.** Bile salts act as activator of which enzyme?

A. Pepsinogen

B. Trypsinogen

C. Lipase

D. Pancreatic amylase

#### Answer:

Watch Video Solution

## **161.** Which of the following cells produce HCI?

A.  $\beta cells$ 

B.  $\alpha - cells$ 

C. Oxyntic cells

D. Chief cells

#### Answer:

Watch Video Solution

**162.** The energy content in Kcal/gm of Carbohyrates:Protein:triglycerol respectively is approximately in the ratio of :

A. 1:2:2

#### B. 1:1:2

C.2:1:1

D. 2:2:1.

#### Answer:

Watch Video Solution

# **163.** This is the common passage of bile and pancreatic juices:

,

A. Ampulla of Vater

B. Ductus chloeduchus

C. Duct of Wirsung

D. Duct of Santorini

#### Answer:

Watch Video Solution

**164.** The purplish--red pigment rhodopsin,contianed in the rods type of photoreceptor cells of the human eye,is a derivative of:

A. Vitamin $B_1$ 

B. Vitamin C

C. Vitamin D

D. Vitamin A

#### **Answer:**

Watch Video Solution

**165.** Which one of the following enzymes carries out the intitial step in the digestion of milk in humans?

A. Pepsin

B. Rennin

C. Lipase

D. a and b

#### **Answer:**

Watch Video Solution

**166.** Which one of the following is true stomach in ruminants?

A. Rumen

B. Reticulum

C. Abomassum

D. Omasum

#### Answer:

Watch Video Solution

**167.** Alimentary canal is absent in:

A. Fasciola hepatica

B. Taenia solium

C. Ascaris suum

D. Ancylostoma caninum

Answer:

Watch Video Solution

168. The mucosal layer in the stomach forms

irregular folds known as:

A. Villi

B. Lumen

C. Rugae

D. Crypts of Liberkuhn

#### Answer:

Watch Video Solution

**169.** The backflow of faecal matter from the large intentine is prevented by the presence of:

## A. Epiglottis

- B. Sphincter of Oddi
- C. Ileo-caecal valve
- D. Gastro-oesophagel sphincter

#### **Answer:**

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170. Pellagra is casued by the deficiency of:

## A. Niacin

B. Pantothenic acid

C. Tocopherol

D. Cyanocobalamine.

### Answer:

Watch Video Solution

171. Fill in the blanks

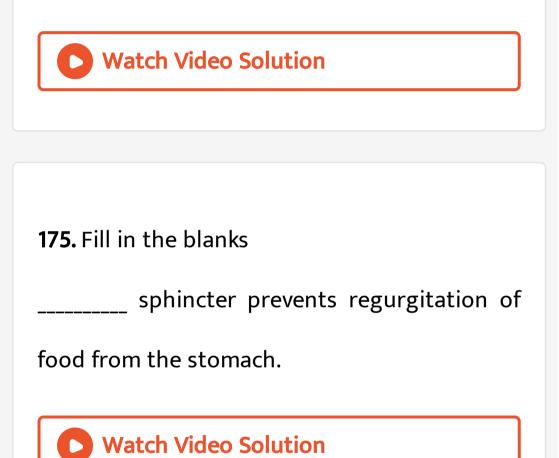
The secretion of gastric juices is inhibited

by\_\_\_\_.

172.	Fill in the blanks	5			
An	obstruction	of	the	bile	duct
casu	es				
C	Watch Video S	Solutio	on		
173.	Fill in the blanks	5			
	prevents the	entry	of food	in wind	d pipe.
C	Watch Video S	Solutio	on		

**174.** Fill in the blanks

Coagulation of milk is done by\_\_\_\_\_.



**176.** Fill in the blanks

The involuntary muscular movements of the

alimentary canal are called\_\_\_\_\_.



## 177. Fill in the blank

Acidic , thick and fluidy food found in the

stomach is called.....

178. Fill in the blank

Presence of different types of teeth is called.....

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## 179. Fill in the blanks

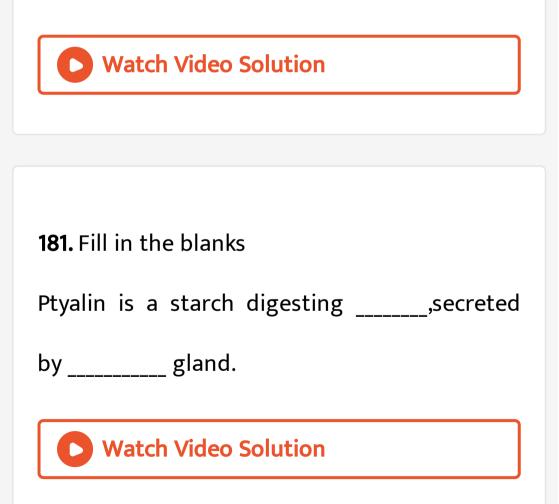
Dental formula of human baby is \_\_\_\_\_.



**180.** Fill in the blanks

Mucosal folds present inside the stomach are

called\_\_\_\_\_.



182. Fill in the blanks

In alimentary canal, maximum absorption

occurs in\_\_\_\_\_.

Watch Video Solution

### 183. Fill in the blanks

One of the digestive juices that lacks enzyme

but aids in digestion is \_\_\_\_\_.

<b>184.</b> Fill ir	n th	e blanks					
Zymogen		cells	of	ga	stric	gl	ands
secrete		·					
<b>O</b> Wa	atch	Video So	olution				
<b>185.</b> Fill ir	ו th	e blanks					
Name o	of	enzyme	whi	ch	digest	ts	fats
is	·						
<b>O</b> Wa	atch	Video So	olution				

**186.** Match the names of cells given under Column I with the names of organs/parts in which they occur, given under Column II. Choose the answer which given correct combination of alphabets of two columns:

	Column - I (Cells)		Column - II (Organs/parts)
, A	Kupffer cells	р	Islets of Langerhans
В	β-cells	q	Liver sinusoids
С	Brush-border cells	r	Thyroid gland
D	Paneth cells	S	Proximal convoluted tubule
		t	Small intestine



## 187. Match the terms in column A with suitable

#### terms in column B.

Column A	Calu
(i) Bilirubin and biliverdin	Column B
(III) Hydrolysis of starch	(a) Parotid
unity Digestion of fat	(b) Bile
(iv) Salivary gland	(c) Lipases
	(d) Amylases

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# **188.** Match the following and choose the cojrrect combination from the option given:



Bile salts help in emulsification of proteins.

All mammals have vetigial vermiform appendix.

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191. True or False

Small intestine is larger than large intestine.

Trypsin coagulates the milk protein casein.

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193. Write 'True' or 'False':

Carbohydrates provide instant energy because

these are easily digestible.



**194.** True or False:

Enteropeptidase activiates pepsinogen to

pepsin.



**195.** Write 'True' or 'False':

Secretion of saliva is only under nervous

control.

196. True or False

Sphincter of oddi guards the opening of

hepatopancreatic duct into duodenum.

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197. Write 'True' or 'False':

Principal fat-digesting enzyme is in the

pancreatic juices.

unabsorbed fat-droplets appear in faeces

when the bile ducts are obstrucrted.



**199.** Mark the odd one in each series:

Stomach, duodenum, je jumnum, ileum.



**200.** Mark the odd one in each series:

Pepsin,lipase,trypsin,chymotrypsin.



**201.** Mark the odd one in each series:

Crypts of Lieberkuhn,villi,rugae,Brunner,'s

glands.

**202.** Mark the odd one in each series:

Bile slats,bile pigments ,gall bladder,gastric juices.



## **203.** Mark the odd one in each series:

Peptic cells,oxyntic cells,argentaffin

cells,paneth cells.

**204.** Note the relationship between the first two words and suggest a suitable word for the fourth place.

Trypsinogen:Enterokinase::Pepsinogen:.....

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**205.** Note the relationship between the first two words and suggest a suitable word for the fourth place.

Saliva:Ptyalin::Gastric juice:.....



**206.** Note the relationship between the first two words and suggest a suitable word for the fourth place.

Holozoic :Man::Saprozioc:.........



**207.** Note the relationship between the first two words and suggest a suitable word for the

fourth place.

herbivore:incisors::Carnivore:.............



208. Note the relationship between the first

two words and suggest a suitable word for the

fourth place.

Intestine:Villi::Stomach:...........

**209.** Give the reason for the following statements:

Digestion involves the process of hydrolysis.



**210.** Give the reason for the following statements:

intercellular digestion is more important than

intracellular digestion.



**211.** Give the reason for the following statements:

Man has heterodont and diphyodont dentition.

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212. Give the reason for the following statements:During the process of swallowing of food bolus, respiration stops for a moment.



213. Give the reason for the following statements:
Villi are most numerous in ileum of small

intestine.

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**214.** These questions consist of two statements each,printed as Assertion and

Reason.While asnwering these questions you are required to chose any one of the following four responses. If both Assertion and Reason are true and Reason in correct explanation of Assertion. If both assertion and Reason are true but reason is not correct explanation of Assertion. If Assertion is true but Reason is false. If both Assertion and Reason are false. Assertion: Protein and fat digestion are very fast in small intestine of man. Reason:Pancreatic juices contain strong proteolytic and lipolytic enzymes.

A. A

**B. B** 

C. C

D. D

Answer:

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215. These questions consist of two statements each, printed as Assertion and Reason. While answering these questions you

are required to choose any one of the following four responses.

If both Assertion and Reason are true and Reason is correct explanation of Assertion. If both assertion and Reason are true but reason is not correct explanation of Assertion. If Assertion is true but Reason is false. If both Assertion and Reason are false. Assertion: Saliva secretion is a reflex action. Reason:Saliva secretion is controlled by only brain and not the homones.

B. B.

C. C

D. D

#### Answer:

Watch Video Solution

**216.** These questions consist of two statements each,printed as Assertion and Reason.While asnwering these questions you are required to chose any one of the following

four responses.

If both Assertion and Reason are true and Reason in correct explanation of Assertion. If both assertion and Reason are true but reason is not correct explanation of Assertion. If Assertion is true but Reason is false. If both Assertion and Reason are false. Assertion:Carbohydrates are called richest source of energy. Reason:Carbohydrates provide highest amount of energy on oxidation.

B. B

C. C

D. D

### Answer:

Watch Video Solution

**217.** These questions consist of two statements each,printed as Assertion and Reason.While asnwering these questions you are required to chose any one of the following

four responses.

If both Assertion and Reason are true and Reason in correct explanation of Assertion. If both assertion and Reason are true but reason is not correct explanation of Assertion. If Assertion is true but Reason is false. If both Assertion and Reason are false. Assertion: Proteins are commonly called body building biomolecules. Reason:Proteins act as enzymes which regulate the metabolism.

B. B

C. C

D. D

### Answer:

Watch Video Solution

**218.** These questions consist of two statements each,printed as Assertion and Reason.While asnwering these questions you are required to chose any one of the following

four responses.

If both Assertion and Reason are true and Reason in correct explanation of Assertion. If both assertion and Reason are true but reason is not correct explanation of Assertion. If Assertion is true but Reason is false. If both Assertion and Reason are false. Assertion: Deficiency of thiamine (Vitamin  $B_1$ ) cause beri-beri involving paralysis. Reason: Taking cooked fish may cause beri-beri but eating raw fish does not.

B. B

C. C

D. D

### Answer:

Watch Video Solution

**219.** These questions consist of two statements each,printed as Assertion and Reason.While asnwering these questions you are required to chose any one of the following

four responses.

If both Assertion and Reason are true and Reason in correct explanation of Assertion. If both assertion and Reason are true but reason is not correct explanation of Assertion. If Assertion is true but Reason is false. If both Assertion and Reason are false. Assertion: Minerals do not form a component of biologically active compounds Reason:Some persons suffer from anaemia due to iron deficiency.

**B.** B

C. C

D. D

### Answer:

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### 220. What do you mean by regional

differentiation of gut.

221. Give two anatomical adaptations of small

intestine for increased absorption of

nutrients.

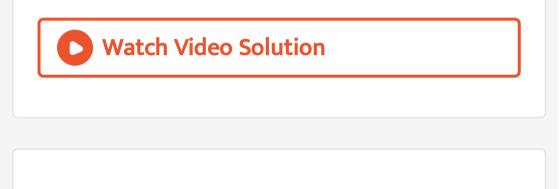


### 222. Define: Emulsification



223. Give the term for th muscular movements

of gut to move the food backward.



**224.** Give the term for the presence of

different types of teeth.



**225.** During swallowing ,the nasal chambers are closed by a free flap of palate.Name this flap.

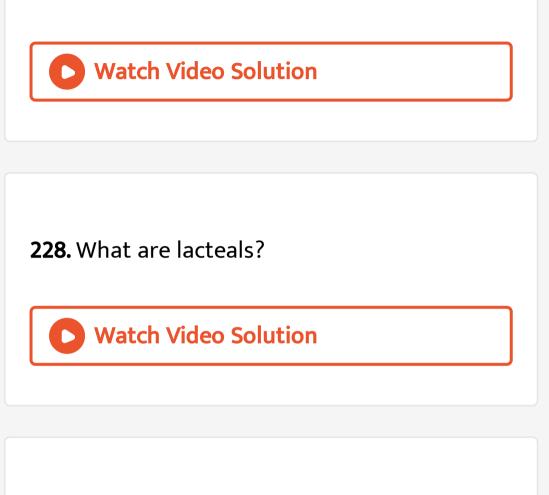


# 226. Name the cells of gastric glands which

secrete pepsinogen, prorennin and gastric

lipase enzymes.

# **227.** What is autocatalysis?



229. Give the terms for a semidigested gastric

food and fully digested intestinal food.

230. Name the source of trypsin and the food

constituents which this enzyme hydrolyses.



# **231.** What are crypts of Leiberkuhn?

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**232.** Name the bile pigments.





233. Name the chemical substance that

changes pepsinogen into its active form.



**234.** how many kilocalories of energy are produced by the oxidation of one gram of carbohydrates?

235. Give the dental formula of human baby

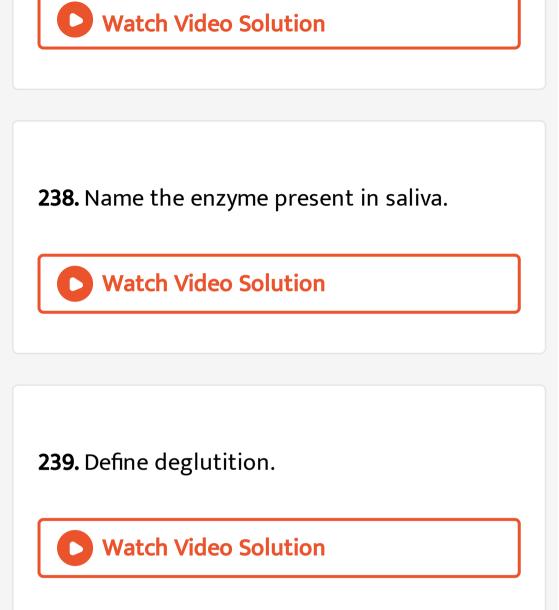


236. Name one organ of human body which

has both exocrine and endocrine functions.

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**237.** Give the occurrence and function of Kupffer cells.



240. name the enzyme causing curdling of milk. Watch Video Solution 241. Why is cecum large sized in certain herbivores?



242. Define chylomicrons.

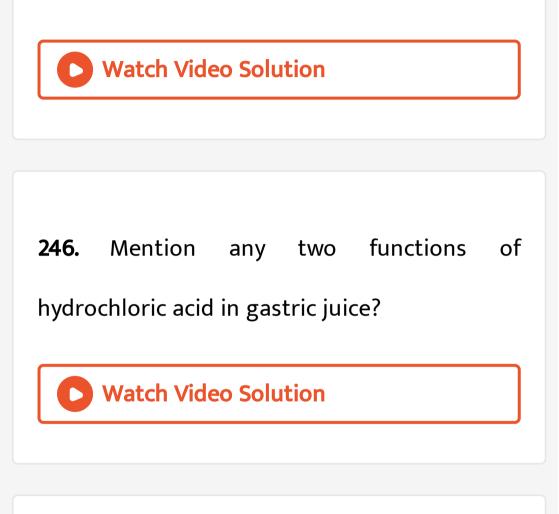


# **243.** Why are proteases generally released in inactive form? What is emulsification and why it is required?

**Watch Video Solution** 

244. Give the dental formula of human baby

**245.** How does saliva act in self-defence?



247. Mention the vestigial part of the human

alimentary canal.





# 248. In humans, starch digestion begins in

buccal cavity but stops in stomach, why?

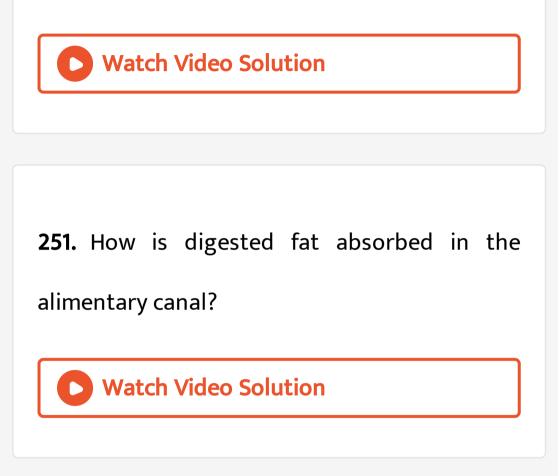


### 249. Name the respective secretions of Goblet

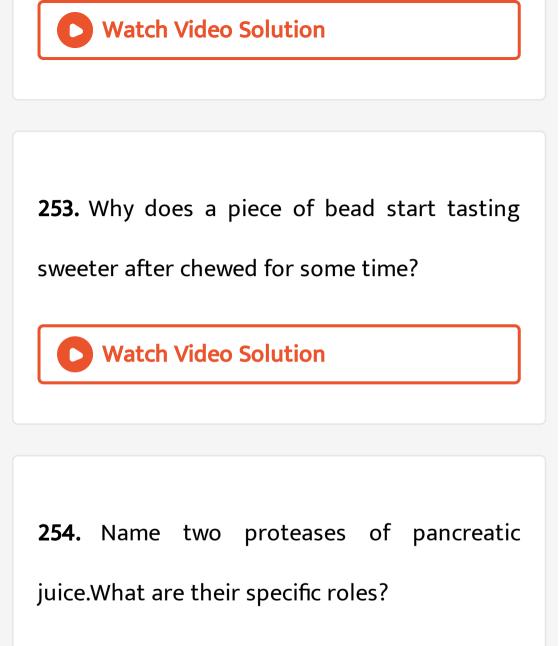
cells and parietal cells of human stomach.

250. How would non-secretion of saliva affect

digestion of food in our mouth?

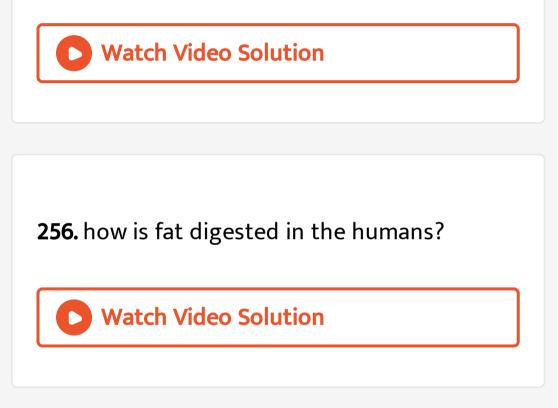


**252.** Differentiate between caloric fuel value and physiological fuel valve.



255. How would digestion of food be affected

if the bile duct is completely blocked?Explain.



**257.** What are micelles ?How are they helpful?

258. Explain the coagulation of milk in the

alimentary canal.

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259. What are microvilli? State their function.

260. State on difference between active and

passive absorption.

Watch Video Solution

### 261. What would happen if bile is not secreted

?



**262.** Give the reason for the following statements:

intercellular digestion is more important than

intracellular digestion.

**Watch Video Solution** 

**263.** Differentiate between chyme and chyle?

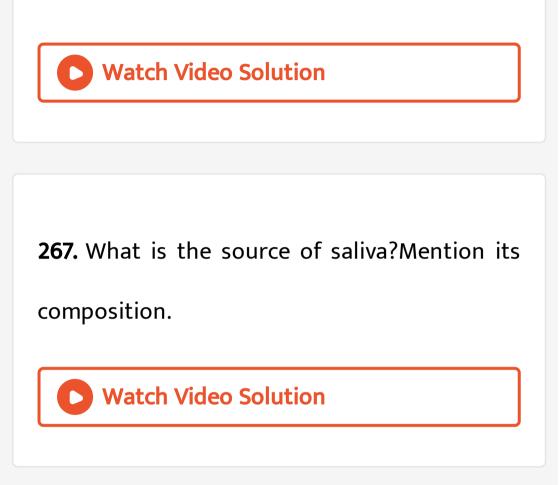
**264.** Name the watery fluid secreted from Bruunner',s gland in the duodenum. Mention its two characterstics. What role does ti play inside the duodenum?

**Watch Video Solution** 

265. How is gut lining protected from its own

secretion of proteases?

266. Write four functions of liver .



268. Name the source of enterokinase and

mention its action.





269. how does food move along the human

gut ?What is this process called?

Watch Video Solution

270. Give the dental formula of human baby

**271.** What is source of HCI ?Give its functions.



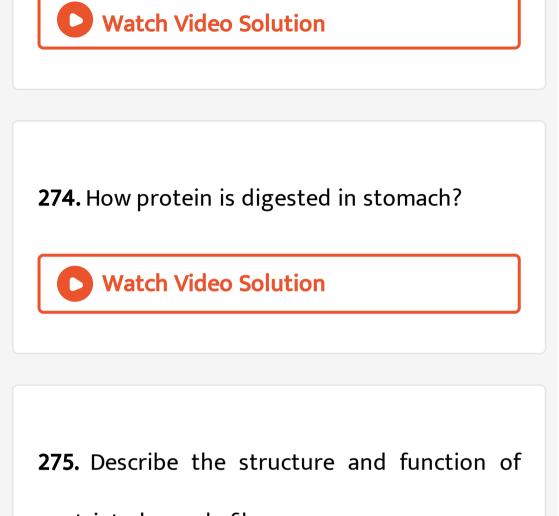
# 272. How carbohydrate is digested in buccal

cavity?

Watch Video Solution

273. Draw a well labelled diagram of V.S. of

tooth.



unstriated muscle fibres.

276. How does butter in your food get digested and absorbed in the body?
Watch Video Solution

277. Describe the structure of mammalian

testis with the help of labelled diagram.

278. Give the cause and symptoms of following

digestive disorders:

**Dental caries** 



# 279. Give the cause and symptoms of following

digestive disorders:

Peptic ulcers

280. Give the cause and symptoms of following

digestive disorders:

Jaundice.

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**281.** How does the intestinal juice contribute in

the digestion of proteins ?What provides

alkaline pH in small intestine?

282. Describe the role of pancreatic juice in

digestion of food.



283. Draw a diagram of human duodenum and

the digestive glands label the glands and their

respective ducts pouring into the duodenum.



284. How carbohydrate is digested in buccal

cavity?

Watch Video Solution

### 285. Draw a well labelled diagram of T.S. of

anther



**286.** Name the hormone that stimulates gall bladder to release the bile juice .How does this juice reach the duodenum? Explain the function of bile in fat digestion.

**Watch Video Solution** 

**287.** Name one enzyme of gastric juice and one of pancreatic juice that are released as proenzymes in the human alimentary

canal.Give the substrate and end product of

each.



288. Write down the human dental formula for

permanent teeth.

Watch Video Solution

**289.** Discuss the digestion of proteins.

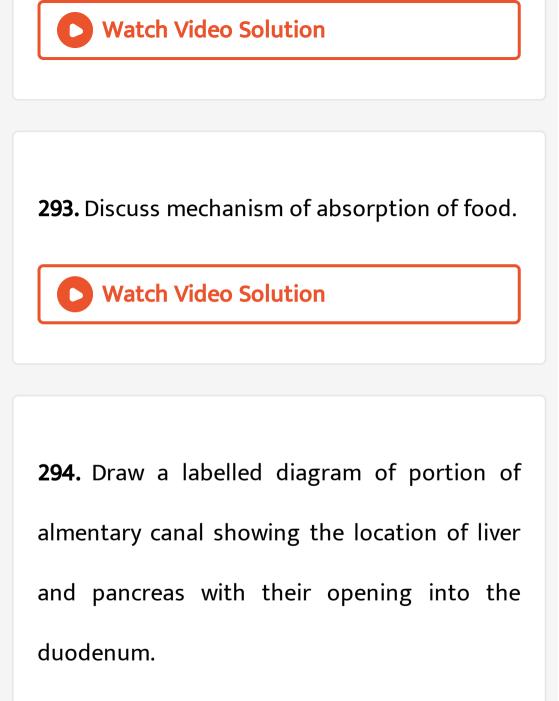
290. What is coprophagy?

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# **291.** Discuss the role of bile in digestion of food.

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292. What is diastema?



**295.** Name the largest gland of human body.



**296.** Describe the following processes in the body.

Coagulation of milk in the alimentary canal.

**297.** Describe the following processes in the body.

Role of bile salts in the digestion and absorption of fats.

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**298.** Describe the following in brief:

Symbiotic digestion of cellulose

**299.** Describe the following in brief:

Protein energy malnutrition.



300. Give an account of gstrofintestinal

hormones.

**301.** Name the various parts of alimentary canal of man.

 Watch Video Solution

# **302.** How carbohydrate is digested in buccal

cavity?



303. What changes does the food undergo in

the stomach?

Watch Video Solution

**304.** Write four functions of liver .

Watch Video Solution

**305.** How protein is digested in stomach?

306. Define digestion.Briefly describe the

process of digestion in small intestine of man.





**1.** Gastric juice contains:

A. Pepsin,lipase and rennin

B. Trypsin,lipase and rennin

## C. Trypsin, pesin and lipase

D. Trypsin, pepsin and rennin.

#### Answer:

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### 2. Succus entericus is the name given to:

A. A junction between ileusm and large

intestine

- B. Intestinal juice
- C. Swelling in the gut
- D. Appendix

#### Answer:

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**3.** Match the terms in column A with suitable terms in column B.

Column A			Column
<ul><li>(i) Bilirubin and biliverdin</li><li>(ii) Hydrolysis of starch</li></ul>	rdin	Column B	
	i cum	(a)	Parotid
Digestion of fat	and the second second	(b)	Bile
(iv) Salivary gland		(c)	Lipases
		(d)	Amylases



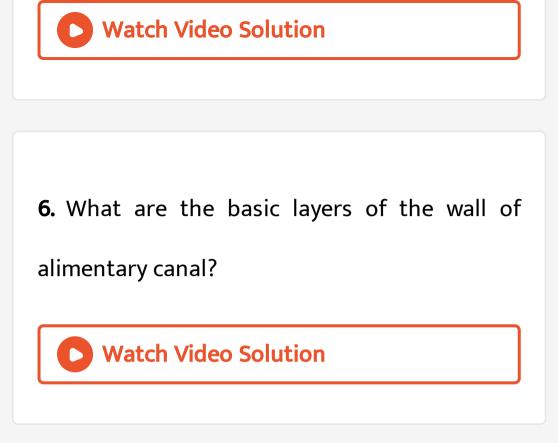
4. Why are villi present in the intestine and

not in the stomach?

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5. How does pepsinogen change into its active

form?



7. How does bile help in the digestion of fats?

8. State the role of pancreatic juice in the

digestion of proteins.

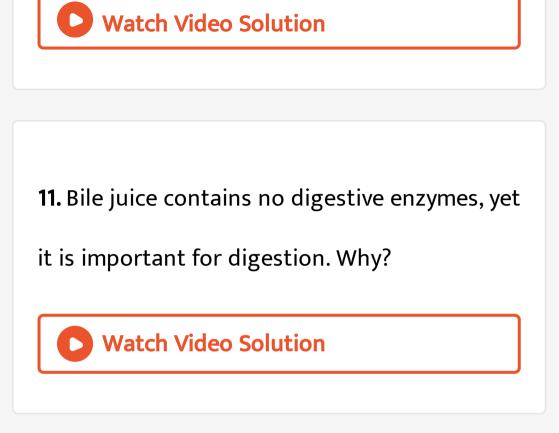
Watch Video Solution

9. Describe the process of digestion of protein

in stomach.

**Watch Video Solution** 

10. Give the dental formula of human beings.



**12.** Describe the digestive role of chymotrypsin. Which two other digestive enzymes of the same category are secreted by its source gland?





**13.** How are polysaccharides and disaccharides

digested?



14. What would happen if HCI were not

secreted in the stomach?

15. How does butter in your food get digested

and absorbed in the body?

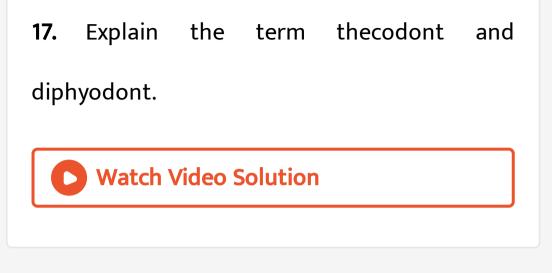


16. Discuss the main steps in the digestion of

proteins as the food passes through different

parts of the alimentary canal.





**18.** Name different types of teeth and their number in an adult human.



**19.** What are the functions of liver?

