- 1. What are the major components of food?
- 2. Largest endocrine gland : Thyroid gland

Largest gland :.....

3. Salivary gland : salivary amylase

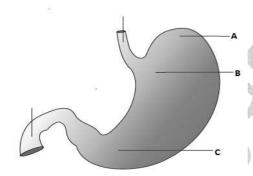
Gastric gland : ......

4. Liver : Hepatic duct
Gall bladder : .....

5. Pneumotaxic centre: pons

Vomit centre : .....

- 6. What are the functions of a)Foodb)organic materials
- Arrange the following enzymes under 2 heading (Pepsin, salivary amylase, maltase, trypsin, lactase, sucrose)
- 8. What is the role of digestion in human being?
- 9. Explain the term digestion?
- Arrange the following events in correct order (Ejection-digestion-assimilation-ingestionabsorption)
- 11. Label the parts



12. Arrange the parts of alimentary canal in correct order

(Anus, stomach, large intestine, small intestine, mouth, oesophagus)

13. Expand

a)CCK b)GIP c)PEM

- 14. Hydrochloric acid of pH 1.8 (Acidic) is present in the stomach,
  - a)How the stomach is protected from the action of HCl
  - b)What are the function of HCl
  - c)What ill happened if HCl is not secreted.
- 15. Which factor in gastric secretion helps in the absorption of Vitamin B12?
- 16. An empty stomach contains several infoldings. Which are the projections of mucosa layer of stomach

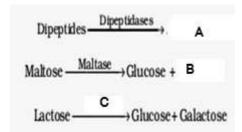
### navas cheemadan

- a)Name it
- b)What is its function
- 17. Explain the following terms
  - a)Frenulum b)Thecodont
  - c)Diphyodont d)Heterodont
- 18. Grandmother told to Vishnu, don't talk while eating food.
  - a)Do you agree with this statement b)Substantiate
- 19. In a television Medical show related to human digestion, Doctor said that "No significant digestive activity occurs in the large intestine" a)Do you agree with this statement b)What are the function of large intestine
- 20. Write down the dental formula of human being?
- 21. Fill in the blanks

Typeof teeth	Total number of teeth in adult
Incisor	6
canine	
Pre molar	,
molar	

- 22. Write an account on kwashiorkor and marasmus?
- 23. Why human teeth are called heterodont?
- 24. Write one word for the following
  - a) breaking down of the fats into very small micelles
  - b) Structural and functional unit of liver
  - c) human being forms two sets of teeth during their life
  - d) Each tooth is embedded in a socket of jaw bone
  - e) An adult human has 32 permanent teeth which are of four different types
  - f) Common passage for both food and air
  - g) Largest gland in the human body
  - h) small protein coated fat globules
- 25. Bile juice is secreted by the liver.But it lacks any digestive enzyme.
  - a) what is the function of bile juice in human digestion?
  - b) what are the component of bile juice
- 26. Ultimate form of all energy is ......
- 27. A young infant may be feeding entirely on mothers milk, which is white in color but the stools, which the infant passes out is quite yellowish. What is this yellowish colour due to?

28. Fill A,B and C



- 29. Hardest part of human body?
- 30. Match the following

a)Goblet cells	1)anti bacterial agent	
b)lysozyme	2)mucus	
c)saliva	3)Hcl	
d)oxyntic cell	4)sublingual gland	
	5)Pepsinogen	

- 31. What is the function of enamel?
- 32. Where do you find the following
  - a)Lacteal b)Papille
  - c)brunners gland
  - c)Gastro oesophageal sphincter
  - d)Ileo-caecal valve
  - e)Pyloric sphincter
  - f) sphincter of oddi
  - g)crypts of Lieberkuhn
  - h)Lysozyme
- 33. Write down any 2 carbohydrate digesting enzyme present in the intestinal juice (Succus entericus )
- 34. Which component of the food digested first in the alimentary canal
  - a)protein b)lipid c)Carbohydrate d)Nucleic acid
- 35. In a class discussion your Biology teacher argued that Protein digestion willnot occur if the pH of stomach is increased into 7.
  - a)Do you agree with this statement?
  - b)What is the role of HCl in digestion
- 36. Utilization of absorbed food material by the cell is called......
- 37. Small intestine is the longest intestine.
  - a) What is the advantage of such lengthy intestine
  - b) What are the parts of large intestine?
- 38. Find the odd man
  - a)Incisor, canine, ileum, molar
  - b)Duodenum, jejunum, caecum, ileum
  - c)Pepsinogen, Trypsinogen, chymotrypsinogen, amylase
  - d)Jaundice, emphysema, diarrhoea, vomitting
- 39. Which of the following pair is itrue

Parotid gland - lower jaw

### navas cheemadan

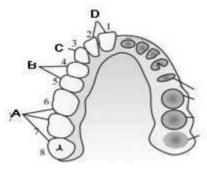
Sublingual gland - below tongue

Sub maxillary gland - cheek
Peptic cell - Hcl

- 40. What is the function of epiglottis in human?
- 41. How stomach wall is protected from the action of HCI?
- 42. a) Why pancreas is called as heterocrine gland?b) What are the components of pancreatic juice?c) what are the 4 types of pancreatic enzyme?
- 43. Identify the part of body
  - a) Widest part of alimentary canal
  - b) C-shaper part of alimentary canal
  - c) Last molar teeth
  - d) Largest gland in the human body
  - e) The digestive gland without digestive enzyme
- 44. Intestinal mucosa secrete an enzyme called Enterokinase. It has to play a major role in protein digestion, But it never digest a protein
  - a)Evaluate this statement
  - b)show its action in human digestion
- 45. Gastric juice of infants contains milk protein digesting enzyme called......
- 46. Match the following

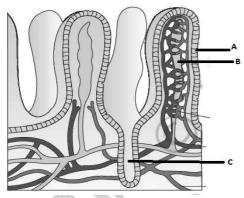
List I	List II	
A.Salivary amylase	i.Protein	
B.Bile salts	ii)Milk protein	
C.Rennin	iii)Starch	
D.Pepsin	iv)Lipids	
E.Steapsin	v)Emulsification of fat	

- 47. Wave like movement of oesophagus is called.......
- 48. Explain the following
  - a)bolus
  - b)Chyme
- 49. Write any three Gastro intestinal hormone with its function?
- 50. Which of the following part regulate the back flow of facecal matter from large intestine to small intestine
  - a)Pyloric sphincter
  - b)Gastro-oesophageal spincter
  - c)Ileo-caecal valve
  - d)semilunar valve
- 51. Which type of stomach movement helps in mixing of food with gastric juice ?
- 52. Label the following part



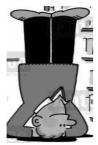
- 53. What is the role of Intrinsic factor to human?
- 54. The wall of alimentary canal from oesophagus to rectum possesses four layers namely serosa, muscularis, sub-mucosa and mucosa
  - a) Where do you find Smooth muscles from the above layers
  - b) What are the components of serosa and sub mucosa
- 55. Doctor satheesh told to his patient that, he is suffering from indigestion.
  - a) What are the causes of indigestion?
  - b) Write any other digestive disorder with reason?
- 56. Explain protein digestion using reactions?

# 57. A)Label the part



b) what is the function of villus in human being?

- 58. Maximum absorption of food material take place from......
- 59. Ramu eat his food in inverted position as shown below

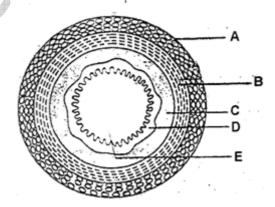


navas cheemadan
The food he eat never return into mouth, give reason?

60. Find out the correct match

a)Hepatic lobule	1.Sub mucosal glands
b)brunner's gland	2.Bases of villi
c)Crypts of Lieberkuhn	3.Glisson's capsule
d)Sphincter of oddi	4.Gall bladder
e)Cystic duct	5.Hepatopancreatic duct
	6.Serous gland

- 61. Which of the following statement is true a)Sub mucosa of duodenum contains brunners gland
  - b)chief cells of gastric gland secrete HCl c) maximum absorption of food occurs in the small intestine
  - d)Stomach stores food material for 4-5 hours
- 62. Why salivary amylase not functioning in stomach?
- 63. Fatty acids and glycerol being insoluble, cannot be absorbed into the blood a)then how it is absorbed into blood?
  - a)then how it is absorbed into blood: b)What is emulsification of fat?
- 64. Anti bacterial agent present in the saliva is.....?
- 66. a)Identify the diagram



b)Label A,B,C,D and E

- c)Where do you find Gastric gland and intestinal gland from the above diagram
- 67. Match Coloumn I with coloumn II and chose the correct option

Coloumn i	Coloumn II	
A)goblet cell	1.Antebacterial agent	
B)Lysozyme	2. Mucus	
C)Saliva	3.HCl	
D)oxyntic cell	4.Sublingual gland	

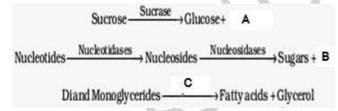
68. Match the coloumn I with Coloumn II and Coloumn III. Choose the correct option

Coloumn I	Coloumn	Coloumn III
(substrate)	П	(Product)
	(Enzyme)	
1.Lactose	A.Lipase	I.Galactose
2.Monoglycerides	B.Trypsin	II.Maltose
3.Starch	C.Lactose	III.Fatty acid
4.Peptone	D.amylase	iv)Dipeptides

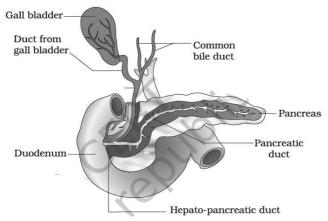
69. Match the following

Coloumn1	Coloumn2	
a)Cardiac	i)opening of hepato	
sphincter/Gastro	pancreatic duct	
esophageal sphincter	into duodenum	
b)sphincter of oddi	ii)between	
	duodenum and	
	posterior	
	stomach	
c)ileo caecal valve	iii)between	
	oesphagus and	
	anterior stomach	
d)pyloric sphincter	iv)between small	
	intestine and	
	large intestine	

- 70. "The end product of fat digestion are not absored directly into blood stream". Justify
- 71. a) Which is the carbohydrate digesting enzyme in the saliva?
  - b)what is its optimum pH?
- 72. Fill the blank using correct answers



- 73. Explain digestion of starch using reactions?
- 74. Which of the following is labeled incorrectly



75. From which part of the body drugs, minerals and water is absorbed?