Human Physiology DIGESTION & ABSORPTION ORAL CAVITY

1)	Hardest part of our body	is		(RPMT 2006)	
	(a) Skull	(b) brain	(c) teeth	(d) cartilage	(c)
2)	Exposed part of the toot	h is called			<i>.</i>
	(a) Root	(b) neck	(c) crown	(d) dentine	(c)
3)	Ectodermal cells that see	crete enamel are c	called	(VMMC 2006)	
	(a) osteoblasts	(b) odontoblas	ts		
	(c) ameloblasts	(d) chondrobla	sts		(c)
4)	The nutrition to the toot	n is supplied throu	ugh		
	(a) crown	(b) enamel	(c)alveolus	(d) pulp cavity	(d)
5)	The pulp cavity is lined	by			
	(a) osteoblasts	(b) ameloblast	ts (c) odontoblasts	(d) chondroblasts	(c)
6)	Which of the following	eeth help in cutti	ng?		
	(a)Molar	(b) Incisor	(c) Canine	(d) Premolar	(b)
7)	Grinding or cheek teeth	are			
Â	(a) Incisors (b) (d)	canines (c) premolars (d) premolars and molars	
8)	The dentition not found	in man is			
	(a) the codont	(b)heterodont	(c) diphyodo	nt (d)lophodont	(d)
9)	Mammalian teeth are no	t			
	(a) Homodont	(b) the codont	(c) heterodon	t (d) diphyodont	(a)
10)	Teeth of an adult man no	ot present in milk	dentition are		
	(a) Molars	(b) canines	(c) incisors	(d) premolars	(d)

11)	How many teeth appear twice during the life span of an individual				
				(AFMC 2004'KCET 2005)	
	(a) 12	(b) 20	c) 28	(d) 32 (b)	
12)	Wisdom teeth in	man are			
	(a) Incisors ((b) last molars	(c) first molars	(d) first premolars (b)	
13)	How many wisd	om teeth are found in	n man?		
	(a)Six	(b) Two	(c) four	(d) Eight (c)	
14)	The total numbe	r of canines in the pe	ermanent dental set of hu	imans is	
			(KC	ET 2002, Orissa JEE 2002)	
	(a) 4	(b) 6 (c) 8	(d) 12	2 (a)	
15)	The element tha	t hardens the tooth er	namel		
	(a)Iodine	(b) Sodium	(c) Florine	(d) calcium (c)	
16)	Dental formula	is given to show			
	(a) Structure of	molars	(b) homodont condition	on	
	(c) diphyodont c	condition	(d)number and types	in both jaws (d)	
17)	Bulk of the toot	n in a mammal is mae	de of		
	(a) Root cavity (b)	(b) dentine	(c) ena	mel (d) pulp	
	cavity (b)				
AT IMEN'	TARY CANAL				
18)	The part of alir	nentary canal which	ı passes through diaph	raom	
10)	(a) Pharynx	(b) oesophagus		(d) small intestine.	
e V	(b)	(0) 0000phugus		(u) shini mestile.	
19)	Shape of stomac	ch in man			
	(a) L- shaped (d)	(b)C-shaped	(c) T-shaped	(d) J-shaped	

20) Oesophagus opens into

	(a).cardiac stomach (a)	(b) fundic stomach	c) pyloric stomach	(d)pharynx
21)	U- shaped part of ali	mentary canal is		
	a) Pharynx (d)	b) duodenum	c) jejunum	d) ileum
22)	Alimentary canal is u	usually longer in		
	(a) Carnivores (b)	(b) herbivores	(c) omnivores	(d) insectivores
23)	Vestibule is the spac	e between		
	(a) Gums and lips	(b) tongue and teeth		
	(c) Tongue and palat	e (d) incisor and premo	olar (a)	
24)	Tongue is attached to	o the floor of buccal cav	ity by	
	(a) frenulum ligament.(a)	(b) mesentery (c) li	ngual papilla (d	l) falciform
25)	The common passag	e for swallowing and br	eathing is	
	(a)Gullet (d)	(b) Glottis	(c) Larynx	(d) Pharynx
26)	The structure that pro	events the entry of food	into trachea during dea	glutition in mammals
	(a) Palate (d)epiglottis	(b)larynx	(c)pharynx	
27)	Which part of alimer	ntary canal does not proc	duce any digestive enz	yme?
A	(a) Mouth	(b) stomach	(c) duodenum	(d) oesophagus
28)	Opening of oesophag	gus is called		
	(a) Gullet	(b) glottis	(c) larynx	(d) pharynx
29)	The valve between the	ne oesophagus and stom	ach is called	
	(a) Gastric valve	(b) ileocecal val	ve	
	(c) Pyloric sphincter	(d) cardiac sphin	cter	
30)	Reverse flow of food	l in the stomach is preve	ented by (EAMCET 20	05)
	(a) Uvula sphincter	(b) pyloric sphine	cter (c) ileocecal	valve (d) cardiac

31)	Narrow distal part of stomach leading to the intestine is called				
	(a) cardia (b)pyloric	(c) pharynx	(d)duodenum		
32)	Ileum is				
	(a) First part of small intestine (b) second part of small intestin	ne		
	(c) Third part of small intestine (d) not a part of small intestine.			
33)	The layer below serosa of alimentary can	nal is			
	(a) Visceral peritoneum (b) submucosa	(c) muscularis	(d) mucosa		
34)	In which layer of stomach is gastric glan	nds located (GujaratCET2008)			
	(a) serosa (b) mucosa (b) mucosa	c) submocosa	(d) muscularis		
<u>DIGESTIV</u>	<u>VE GLANDS</u>				
35)	Position of sublingual glands				
	(a) Below tongue (b) below eye	(c) behind pinna (d) near	lower jaw		
36)	Glisson's capsule is associated with				
	(a) Salivary glands (b) liver (c) pance	reas (d) spleen			
37)	Number of salivary glands in human bei	ngs			
	(a) 5 pairs (b) 4 pairs ((c) 3 pairs (d) 2 pairs			
38)	Saliva is secreted by				
	(a) Pancreas (b) gall bladder glands	(c) gastric glands (c	l) sublingual		

39) glands
39) Smallest salivary glands
(a) Parotid (b) sublingual (c) submaxillary (d) infraorbital
40) Submaxillary glands pour their secretions through

(a) Stenson's duct
(b) Wharton's duct
(c) nasopaltine duct

41) Wharton's duct is associated with

	(a)Sublingual gland gland	d (b) Brunner's gland	(c) Parotid gland	(d) Submaxillary
42	Largest salivary gla	und in man is		
	(a)Parotid	(b) Sublingual	(c) Infraorbital (d) Submaxillary
43)	Parotid glands are l	ocated below		
	(a) Eye meatus.	(b) tongue (c) flo	oor of the mouth (d)	external auditory
44)	Brunner's glands ar	re found in		
	(a) Wall of rectum	(b) m	ucosa of ileum	G
	(c) submucosa of st	comach (d) submucosa	of duodenum	
45)	Brunner's glands se	ecrete		
	(a) Mucus (d)trypsinogen	(b) maltase	(c)erepsin	
46)	Crypts of Lieberkul	hn are present in		
	(a)intestine Colon	(b) stomach	(c) oesopha	gus (d)
47)	Crypts of Lieberkul	hn secrete		
	(a)bile juice succus entericus	(b) gastric juice	(c)saliva	(d)
48)	The largest gland ir	n our body is		
	(a) Liver pancreas	(b) pituitary	(c) thyroid	(d)
49)	Liver of man is			
	(a) 2-lobed lobed	(b) 3- lobed	(c) 4-lobed	(d) 5-
50)	Kupffer cells are fo	und in		
	(a) Liver colon	(b) pancreas	(c) small inte	estine (d)
51)	Hepatocytes secrete			
	(a) Lipase (b) enzymes) bile with enzymes (c) bi	le without enzymes	(d) gastric juice with

52)	Which of the following	g represent bile salt	cs?		
	a) Bilirubin,Biliverdin	(b)Bilin	rubin, Hemoglobin		
	(c)Glycocholates,tauro	cholates (d) Bi	carbonates, bilirub	in	
53)	Pancreas has				
	a) Exocrine function	(b) endoc	rine function		
	c) paracrine function	(d) both ex	xo and endocrine f	unction	
54)	Cystic duct arises from				
	a) Liver	(b) kidney	(c) pancreas	(d) ga	ll bladder
55)	Function of gall bladde	er is to			
	a) Store bile bile salts	(b) secrete bile	(c) sto	ore hormones	(d) form
56)	Liver stores food in the	e form of			
	(a)ATP Albumen	(b) Glucos	e (c) Glycogen		(d)
57)	Hydrochloric acid in th	e stomach is secre	ted by (BCECE200	04)	
	(a) Chief cells cells	(b) pari	etal cells (c) zy	mogen cells	(d) neck
58)	The delicious food gen	erally makes mout	h watery. This is c	lue to:	
	(a) Neural response response	(b) optic respo	nse (b) hormor	nal response (d)	olfactory
59)	Daily secretion of saliv	a in man is about:			
	(a) 100ml	(b) 250ml	(c) 500ml	(d) 1000ml	
60)	Salivary amylase is als	o known as:			
	(a) Ptyalin	(b) gastrin	(c) Lipase	(d) pepsin	
G					
61)	pH of saliva is:				
	(a) 7	(b) 8	(c) 6.8	(d) 9.5	
62)	Ptyalin of acts upon:				
	(a) Fat	(b) lipid	(c) starc	h (d) pro	tein

63)	Ptyalin of saliva acts in:
	(a) Slightly acidic medium (b) slightly alkaline medium
	(c) neutral medium (d) all types of media
64)	Which of the following digestive juices have the minimum pH? (AIIMS 2002)
	(a)Bile (b) Saliva (c) Gastric Juice (d) Pancreatic juice
65)	Which two enzymes are present in human gastric juice?
	(a) HCL and pepsin (b) Pepsin and rennin (c) Trypsin and erepsin (d) Trypsin and rennin
66)	Which cells of gastric mucosa secrete pepsinogen? (DPMT 2007)
	(a)Goblet (b) Parietal (c) Oxyntic (d) Chief cells
67)	Zymogen cells of gastric glands secrete:
	(a) Pepsin (b) trypsin (c) pepsinogen (d)
	chymotrypsin
PPACESS	OF DIGESTION
68)	Essentially the word 'digestion' means: (CPMT 2005; JIPMER 2006)
	(a) Burning of food (b) oxidation of food
	(c) Hydrolysis of food (d) breakdown of food
69)	All digestive enzymes are:
	(a) Ligases (b) oxidases (c) hydrolases (d) transferases
70)	If pH of stomach is made 7, which component of food would be affected?
	(a)Fat (b) Starch (c) Protein (d) Sucrose
71)	Curdling of milk in stomach occurs by the action of: (AIIMS 2002)
Y)	(a) Rennin (b) trypsin (c) erepsin (d) chymotrypsin
72)	Rennin acts on milk proteins and converts: (JIPMER2002)
	(a) Caseinogen to casein (b) casein into paracasein
	(c) Caseinogens to paracasein (d) paracasein into caseinogen
73)	The enzyme trypsin is found in: (Kerala PMT 2002; St.Johns MC 2002)

	(a)mucus (b) saliva (c)sto	omach (d) pancreatic juice	
74)	Lactose is hydrolysed into:	(COMEDK's 2007)	
	(a) Fructose only (b) glucose galactose	e only (c) glucose+fructose (d)glucose +	
75)	The main function of lacteals in the v	villi of human small intestine is the absorption of:	
	2005, 06)	(K-CET	•
	(a) Glucose and vitamins	(b) fatty acids and glycerol	
	(c) Water and mineral salts	(d) amino acids and glucose	
76)	Which one is different from the categ	ory of other three?	
	(a) Ptyalin (b)Secretin	(c) Gastrin (d) Glucagon	
77)	Carboxy peptidase is an enzyme secre	eted by: (Kerala PMT 2004)	
	(a) Stomach (b) pancreas	(c) intestine (d) gall bladder	
78)	In which of the following, putrefying Wardha 2008)	bacteria are present? (BHU 2006;	
	(a) Liver (b) colon	(c) Stomach (d) Intestine	
79)	Pancreatic juice is released into:		
	(a) Ileum (b) jejunum (c	c) stomach (d) duodenum	
80)	Proteolytic enzymes present in the pa	Increatic juice are: (BHU 2007)	
	(a) Pepsin (b) elastase	(c) salivary amylase (d) chymotrypsin	
81)	Obesity is due to extra consumption of	of:	
	a) Carbohydrates b) Proteins	c) Fats d) Both (a) and (c)	
82)	What is common among amylase, ren	unin and trypsin?	
	a) These are all proteolytic enzymes	b) These are all protein	
	c) These are all produced in stomach	d) these act at lower than7	
83)	Which of the following lacks proteins	s?	
	a) Pancreatic juice b) Saliva	c) Bile d) Intestinal juice	
84)	Lactase is found in:		
	a) Saliva b) Pancreatic juice c) Bil	le d) Intestinal juice	

85)	In case of taking food rich in lime juice, the action of ptyalin on starch is:				
	a) Enhanced	b) Reduced	c) Unaffected	d) Stopped	
86)	Human digestiv	e juices lack:			
	a) Lactase	b) Amylase			
	c) Cellulase	d) Sucrose			
87)	The level of glu	cose in the blood is co	ontrolled by:		
	a) Ileum	b) Gall bladder	c) Liver	d) Pancreas	
88)	Digestive enzyn	nes are			
	a) Hydrolases	b) Oxidoreductases	c) Transferases	d) Lygases	
89)	Bile secretion is	proportional to conce	entration of:		
	a) Protein	b) Fats	c) Carbohydrates	d) Vitamins	
90)	If a man eats bo	iled potatoes:			
	a) The starch in	is indigestible b) Th	e cellulose present is dig	ested by cellulase	
	c) It has excess	of fats digested by lip	ase d) It has DNA d	digested by nuclease	
91)	The factor whic	h governs the absorpt	ion of digested food by in	ntestinal villi is:	
	a) Peristalsis	b) Osmosis c) Em	ulsification	d) Selective absorption	
92)	In ileum of sma	ll intestine, which of t	he following is digested?	?	
	a) Vitamin K	b) Monosacc	harides c) Fat	d) Bile salts	
93)	Most abundant	organic compound on	earth is:		
	a) Proteins	b) Cellulose	c) Lipids	d) Steroids	
94)	Formation of gl	ucose from protein is:			
	a) Gluconeogen	esis	b) Glycogenolysis		
e O	b) Glycogenesis		d) Glycolysis		
95)	Maximum energ	gy is available on com	plete oxidation of:		
	a) Glucose	b) Fat	b) Protein	d) Organic acids	
96)	During digestion colour to the	n lymphatics of intesti lymph which is o	ine become filled with fa called.	t globules giving white	
	a) Bilirubin	b) Chyle	c) Chyme	d) Cistron	

97)	Carbohydrate digestion first occurs in:					
	a) Mouth	b) Intestine	b) Stomach	d) None of these		
98)	The hardest substance	in our body is e	enamel because it cont	ains		
	(a) High organic matter (b) high inorganic content					
	(c) High blood supply	(d)	high oxygen level			
99).	Number of teeth whic	h are monophyc	odont in man is			
	(a) 4	(b) 12	(c) 22	(d) 32		
100)	Number of incisors, ca	anines, premola	rs and molars in each	jaw of man is		
	(a) 6,2,4,4	(b) 4,2,5,6	(c) 4,2,4,6	(d) 4,4,6,4		
101)	Wisdom teeth in huma	an are				
	(a) 3rd molar and 4 in number (b) 3rd molar and 2 in number					
	(c) 2nd molar and 4 in	number	(d) 2nd molar and 2 in	n number		
102).	Taking in food by an a	animal is called.				
	(a) Ingestion	(b) egestion	(c) absorption	(d) assimilation		
103)	'vomiting' is a reflex	action controlled	d by			
	(a) Cerebellum	(b) cerebrum	(c) medulla	(d) spinal cord		
<u>LEVEL-2</u>						
104)	In man though both ai	r and food go th	rough the pharynx, fo	od does not normally enter		

<u>LEVEL-2</u>

104)	In man though both air and food go through the pharynx, food does not normally enter the wind pipe because during swallowing of food			
	(a) The epiglottis covers glottis	(b) Cartilage of santorini closes the larynx		
	(c) Glottis covers the epiglottis	(d) arytenoid covers the glottis.		
105)	The incisor tooth is meant for			
	(a) Biting and chewing	(b) only chewing		
	(c) Crushing and grinding	(d) only grinding		
106)	The main importance of villus is that it	: (Orissa JEE 2010)		
	(a) Secretes enzymes	(b) acts as nerve transmitter		

	(c) Absorbs only protein digested food	n material (d)) increases surface an	rea for the absorption	of	
107)	The intestinal villi are more numerous and larger in posterior part of small intestine because:					
	a) Digestion is faster in	posterior part b)	blood supply is poor	rer in anterior part		
	c) Blood supply is poor part	er in posterior part	d) there is more	e digested food in pos	terior	
108)	Secretin and cholecysto by:	kinin are two horn	nones involved in di	gestion. They are secr	eted	
	a) Oesophagus	b) Stomach	c) Duodenum	d) Ileum		
109)	Nutrients absorbed by the	he blood capillarie	es in intestinal villi fi	rst go into:		
	a) Aorta b) Post	terior vena cava	c) Hepatic port	al vein d) Hepatic arte	ery	
110)	An adolescent human b	elow 17 years of a	ge normally has den	tal formula as:		
	a) 2120/2120	b) 2122/2122	c) 2132/2132	d) 2232/2232		
111)	Argentaffin cells are for	und in:				
	a) Pancreas	b) Intestine	c) Gastric gland	ds d) Liver		
112)	The epithelial cells lining	g the stomach of v	ertebrates is protecte	d from the damage by	HCL	
because:				(Manip	201	
	2006)			(Wamp	Jai	
	(a) HCL is too dilute	(b) HCL is neutra	lized by stomach			
	(c) The epithelial cells a	are resistant to the	action of HCL			
	(d) The epithelial cells a	are covered by a m	nucous secretion			
113)	Which component of bi	le is not primarily	secreted by h	epatocytes?		
e 0	(a)Bilirubin Cholesterol	(b) Bile salts	(c) Bicarbonate	(d)		
114)	Which of the following	is not a reducing s	sugar?			
	(a)Lactose	(b) Sucrose (c)) Maltose	(d) Fructose		
115)	Which group contains b	biocatalysts?				
	(a)Erepsin, amylase, rer	nnin (b))Rhodopsin, pepsin,	steapsin		
	(c)Myosin, oxytocin, adrenaline (d) Glucose, amino acids, fatty acids www.sakshieducation.com					

The following is a scheme showing the fate of carbohydrates during digestion in the human alimentary canal. Identify the enzymes acting at stages indicated as A, B, C and D. Choose the correct option from those given: (Karnataka CET 2006)

	Starch	Lactose	Maltose	Sucrose		
	A	В	С	D		
	Galactose	Glucose	Fructose			
	(a)A=amylase,l	B=maltase,C	=lactase,D	=invertase		
	(b)A=amylase,	B=maltase,C	2=invertase	,D=lactase		
	(c)A=amylase,l	B=invertase,	C=maltse,l	D=lactase		
	(d)A=amylase,	B=lactase,C	=maltase,D	=invertase		
117)	Lacteals are for	und in:				
	a) Kidneys	b)]	Intestinal v	illi c) Liv	er	d) Lungs
118)	Chylomicrons a	are:				
	a) Undigested p	proteins	b) Unc	ligested carbol	nydrates	
	c) Fat droplets	coated with	phospholip	ids d) Fat	s droplets coated with	n glycoproteins
119)	Secretion of ga WB-JEE 2010)	0	controlled	by: (RPMT	2005; VMMC-Safda	arjung 2007;
	(a) gastrin above	(b)	enterogastr	in (c)o	cholecystokinin (d)no	one of the
120)	Excessive stim	ulation of va	gus nerve i	n hur	nans may lead to: (A	AIIMS 2003)
2	(a) Hoarse vo	oice		(b) peptic ul	cers	
	(c) Efficient c	digestion of j	proteins	(d) irregular	contractions of diaph	ragm
121)	A dental diseas chemical		•	U	due to presence of a h is that element? (I	
	(a)Boron	(b) Chlorin	ne	(c) Fluorine	(d) Mercury	

122)	Stool of a perso following orga (CBSE 2002)	ns?	ins whitish gre	y colour di	ue to malfun	ction of	which of	the
	(a) Liver	(b) Sp	leen	(c) Kidne	ey	(d) Par	icreas	
123)	Excessive drin	king of a	lcohol causes:					
	(a) Fibrosis		(b) cirrhosis	(0	c) jaundice		(d) derm	atitis
124)	Water is largel	y absorb	ed in:					\mathcal{CP}_{\bullet}
	a) Colon	b) Stor	mach	c) Oesop	hagus	d) Sma	ll intestin	ie
125)	Glycogen is sto	ored in:					\mathcal{G}	
	a) Liver		b) Muscles	c) Both of the	se	d) Blood	
126)	Removal of sto	mach in	man causes:	A			W.	
	a) Dumping sy	ndrome	b) Turner's sy	yndrome	c) Em	physema	ı d) Midget
127)	Which enzyme	digests	peptides releas	ing amino	acids one by	y one?		
	a) Pepsin		b) Steapsin	c) Peptidases		d) Amin	opeptidase
128)	Pepsin acts in:							
	a) Basic mediu media	m	b) Acidic med	dium c)) Neutral me	dium	d) All ty	pes of
129)	Marasmus is ca	aused by						
	a) Obesity vitamin	K	b) Dwarfism	c) Prolon	ged starvatio	on	d) Defici	ency of
130)	Which is incor	rectly ma	atched:					
	a) Rennin-Live	er	b) Ptyalin-Mo	outh c	Pepsin-Stor	mach	d) Tryps	in-Intestine
131)	If the chyme of a person who had orally consumed starch as food is analyzed before it enters the duodenum, it will show the presence of:					oefore it		
2.0	a) Maltose and	glucose		b) Dextri	n and maltos	se		
2	c) Starch, dextr	rin and n	naltose	d) Starch	, dextrin and	l glucose	è	
132)	Function of gal	ll bladde	r is:					
	a) Storage of b Formation of b		b) Formation	of enzyme	es c) Sec	retion of	bile d)
133)	Among energy	values of	of nutrients, 9.3	3 calories i	s that of:			

	a) Fats	b) Proteins	c) Vitamins	d) Carbohydrates	
134)	The first process in dig	estion and assir	milation of fat	s is:	
	a) Emulsification adipose tissue	b) Enzymatic	action c) Ab	sorption by lacteals d) Storage	in
135)	Continued consumption lead it.	n of diet rich in	butter, red me	at and eggs for a long period m	ıay
	a) Vitamin A toxicity	b) Kid	lney stones		\mathcal{P}_{Δ}
	c) Hypercholesterolemi	a d) Uri	ne with ketoni	e bodies	₽
136)	Which of the following	represent the l	oile salts?		
	a) Bilirubin and Biliver	din b) Soc	lium glycocho	ate	
	c) Hemoglobin	d) Bill	lirubin and He	noglobin	
137)	Epithelial cells intestine	e involved in fo	ood absorption	have on their surface:	
	a) Pinocytic vesicles	b) Phagocytic	vesiclesc) Zy	mogen granules d) Microvilli	
138)	Kwashiorkor is caused	due to deficien	cy of		
	a) Calories	b) Hormones	c) Zwitterion	s d) Essential amino ac	ids
139)	Wisdom teeth are:				
	a) Last molars	b) Last premo	olars c) Inc	isors d) Canines	
140)	Caloric value for carbol	hydrates, prote	ins and fats is:		
	a) 50 cal, 4.68 cal and 8 respectively	30 cal respectiv	vely	b) 40 cal, 80 cal and 100 cal	
	c) 4.1 Kcal, 5.65 Kcal a respectively	nd 9.45 Kcal r	espectively	d) 5.6 Kcal, 100Kcal and 301	Kcal
<i>P</i> ¹ 0					
5					

MATCH THE FOLLOWING

141.

Match the terms in column A with suitable terms in column B:

	Colu	mn A	Column	B	
	i)	Pepsin	a) Fats		
	ii)	Bile	b) Casein		
		salts	c) Micel		
	iii)	Lipase	d) Starch	1 I	
	iv)	Ptyalin			
a) i – t)	ii-c	iii-a	iv-b	
b) i-c		ii-a	iii-d	iv-b	
c) i-b		ii-c	iii-b	iv-a	
d) i-c		ii-d	iii-a	iv-b	
					+PAGE –

142) Study the following question choose the correct option

Glands	Location
A.Crypts of lieburkuhn	a.Loop of
	duodenum
B Pancreas	b.Stomach
C.Adrenal gland	c.Intestine
D.Gastric gland	d.Kidney

(a)A=a, B=d,C=c, D=a (b)A=a,B=c,C=d,D=b (c)A=c,B=a,C=b,D=d (d)A=c,B=a,C=d,D=b

145)	
Papillae	Shape
A.Vallate	1.mushroom shaped
B.Fungiform	2.Leaf shaped
C.Foliate.	3.Surrounded by a wall.
D.Filiform	4.Filament shaped

a)=4 B=2 C ==1 D= 3 (b) A=3 B=1 C=2 D=4 (C) A=2 B=3 C=.1 D= 4 (d)A=3 B=2 C=4 D=1

146)

Description	teeth
A. Different	1. diphyodont
types of teeth	
B Found in the	2.Heterodont
socket	
C. Two sets of	3.Thecodont
teeth	
	4. monophyodont

(a) A=2,B=3,C=1

(b) A=3 ,B=1,C=2

(c) A=4,B=3,C=2

147) Study the following question choose the correct option

Φ_{λ}	
Column-	Column-2
A.Goblet cells	1.Antibacterial
$\nabla = \nabla$	agent
B.Lysozyme	2.Mucus
C.Saliva	3.HCl
D.Oxyntic cells	4.Sublingual gland

(a) A=1,B=1, C=4,D=2 (b)A=1,B=3, C=4, D=2 (c)A=2,B=3,C=1,D=4 d)A=2,B=1,C=4,D=3



148) Studt the following question choose the correct option

Type of teeth	Number
A.Premolars in lower	1.Four
jaw	
B.Molars in upper jaw	2.Eight
C.Incisors in both jaws	3.Two
D.Canines in upper	4.Six
jaw	

(a)A=3,(B)=2,C=1,D=4 (b)A=1,B=4,C=2,D=3 (c)A=1,B=3,C=2,D=4 (d) A=4,B=1,C=3,D=2

149) Study the following question choose the correct option

Structure	Description
A.stomach	1.Vestigeal organ
B.duodenum	2.heterocrine
	organ
C.vermiform	3.U-shaped organ
appendix	
DPanreas	4.J shaped organ

(a)A=3,B=4,C=2,D=1 (b)A=4,B=3,C=2,D=1 (c)A=4,B=3,C=1,D=2 (d) A=3,B=1,C=2,D=4.

150) Study the following question choose the correct option

da.

Stucture	Associated with
A. epiploic appendages	1.Ileum
B.Payer's patches	2.larynx
C.Sacculus rotundus	3.colon
D.Glottis	4.small intestine

 $\begin{array}{l} (a)A{=}3,B{=}4,C{=}1,D{=}2\\ (b)A{=}3,B{=}2,C{=}1,D{=}4.\\ (c)A{=}4,B{=}3,C{=}2,D{=}1\\ (d)A{=}4;B{=}3,C{=}1,D{=}2. \end{array}$

ASSERTION AND REASON QESTIONS

Instructions;

- (a) If both (A) and (R) are true and (R) is the correct explanation of (A)
- (b) If both (A) and (R) are true but (R) is not the correct explanation of (A)
- (c) If (A) is true, but (R) is false
- (d) If (A) and (R) are false.
- 151) (A) Thick layers of muscles are present in the wall of alimentary canal.

(R)Muscles help in mixing food with enzymes in the alimentary canal

152) (A) Polypeptidase acts on the peptide linkages and breaks them into smaller molecules and water molecules are necessary for this reaction.

(R)All digestive enzymes are hydrolases.

153) (A).Dentine is mesodermal in origin.

(R) Dentine is secreted by odontoblasts cells.

154) (A).Cardiac sphincter prevents regurgitation.

(R). It prevents reentry of food from small intestine to stomach.

(A).Pancreas and liver open into duodenum.

(R) Pancreas and liver lie between the two limbs of duodenum.

156) (A) Oesophagus is involved in deglutition.

(R)It lies in mediastenum

157) (A).Brunner's glands help in easy passage of food.

(R).Brunner's glands secrete mucus.

- 158) (A).The caecum is large and spacious in herbivore.
 - (R). In most herbivores cellulose digestion occurs in caecum.
- (A).Lymph capillary of a villus is called a lacteal.
 - (R). Lymph vessel which carries fats is milky white in colour
- 160) (A). The main food digested in stomach is protein.

(R) Enzyme rennin is secreted in stomach.

161) (A) Enzyme pepsin is autocatalytic.

	(R) There is no need for an activator ,to convert pepsinogen to pepsin.
162)	(A) Bile has no enzymes.
	(R). Bile does not have any role in digestion.
163)	(A) Ileum has Payer's patches.
	(R). Lymphocytes are produced by small intestine
164)	(A).Bile helps in emulsification of fats.
	(R). Bile has sodium bicarbonates.
165)	(A): Gastric juice helps in absorption of B12
	(R): Gastric juice contains Intrinsic factor of Castle
166)	(A): Salivary glands, liver and pancreas are called accessory digestive glands
	(R) They open by ducts into the alimentary canal
167)	(A) Malnutrition involves under nutrition as well as over nutrition
	(R) In both types there is deficiency of some vital ingredients of food
168)	(A) An adult man has more number of teeth than a child
	(R) Teeth in human beings are thecodont
169)	(A) Most of gastrointestinal hormones are called local hormones
	(R) They act upon the same part of gut which secretes them
170)	(A) Passive absorption of food is a slow process
	(R) It does not depend upon the energy
171.	Assertion (A): In alcoholic drink the alcohol is converted into glucose in liver
	Reason (R): Liver cells are able to produce glucose from alcohol by fermentation
172.	Assertion (A): Peyer's patches are derivatives of lymphoid tissue
5	Reason (R): These are most numerous in the region of colon
173.	Assertion (A): Retinene is a constituent of vitamin-A (Retinol)
	Reason (R): Vitamin-A deficiency naturally causes deficiency of rhodopsin inducing night blindness (nyctalopia)
174.	Assertion (A): The gall bladder is the chief place for bile storage

Reason (R): Bile is concentrated 50 times in gall bladder

<u>Exercise-I</u>

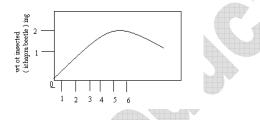
1.	The layer of cells		(JIPMER-2011)		
	a. Dentoblast	o. Ameloblast	c. Osteoblast	d. Odo	ontoblast
2.	Which of the folle	owing is mismatch	ned		(JIPMER-2011)
	a. Vitamin k- Beri	i-beri b. V	itamin D-Rickets		
	c. Vitamin C-Scu	rvy d. V	itamin A-Xerophtl	nalmia	
3.	Which of the folle	owing vitamin is w	vater soluble as wel	ll as an antiox	idant
					(JIPMER-2010)
	a. Vitamin B_1	b. Vitamin-	A c. Vitan	nin – D	d. Vitamin-C
4.	Eustachian canal	connects (JIP	MER-2010)		
	a. Middle ear with	h external ear	b. Middle ear w	with internal ea	ar
	c. External ear		d. Phary	ynx with midd	lle ear
5.	The vitamin whic	h is assential for b	lood clotting		(JIPMER-2009)
	a. vitamin-A	b. vitamin-l	В	c. vitamin-C	d. vitamin-K
6.	Which vitamin sh	ould not be stored			(JIPMER-2008)
	a. Calciferol	o. Retinol	c. Niacin	d. Asc	orbicacid
7.	Secretion of panc	reatic juice is stim	ulated by		(JIPMER-2008)
	a. Gastrin	b. Secretin	c. Enter	ogastron	d. Enterokinase
8.	Which one is the	sweetest sugar			(JIPMER-2008)
	a. Glucose	b. Fructose	c. Sucro	ose	d. Maltose
9.	A patient is gener diet only when he		ecially consume mo	ore meat, lenti	ls, milk and eggs in (JIPMER-2007)
	a. Kwashiorkor	b. Rickets	c. Anen	nia	d. Scurvy
10.	Secretin and chol	ecystokinin are dig	gestive hormones th	ney are secrete	ed in
					(JIPMER-2007)
	a. Oesophagus	o. Ileum c. D	Juodenum	d. Pyloric stor	nach

11.	Digestion word means (JIPMER-20					
	a. Burning of foodb. Oxidation of foodc. Hydrolysis of foodd.Breakdown of food					
12.	Maximum absor	ption of water occurs	in	(JIPMER-2006)		
	a. Colon	b. Rectum	c. Large intestine	d. Small intestine		
13.	During starvation	n what will be sequen	ce of ending of food st	uffs (JIPMER-2006)		
	a. Carbohydrates	– Fat – Protein	b. Carbohydrates – P	rotein – Fat		
	c. Fat – Protein -	- Carbohydrate	d. Fat – Carbohydrate	e – Protein		
14.	Secretion of gast	ric juice is stimulated	by	(JIPMER-2005)		
	a. Pepsin	b. Gastrin	c. Renin	d. Secretin		
15.	Pepsin is inactive	ated at pH		(JIPMER-2005)		
	a. Below 3	b. Below 2	c. Above 5	d. Above 3		
16.	Pellagra is cause	d by deficiency of vit	amin	(JIPMER-2005)		
	a. <i>B</i> ₁	b. <i>B</i> ₂	c. <i>B</i> ₅	d. <i>B</i> ₆		
17.	Disease caused b	by deficiency of protein	in in children is	(JIPMER-2005)		
	a. Obesity	b. Marasmus	c. Diabetes	d. Kwashiorkor		
18.	In the wall of ali	mentary canal, what i	s the actual sequence f	rom outer to inner		
				(JIPMER-2005)		
	a. Serosa, longitu muscle	udinal muscle, mucos	a, submucosa	b. Mucosa, serosa, long,		
	c. Serosa, long m submucosa, muc	nuscle, Circular subm osa	ucosa, mucosa	d. Serosa, long muscle,		
19.	Bile helps in the	digestion of fat through	gh	(JIPMER-2005)		
20	a. Emulsification above	b. Alkalinity	c. Forming m	icelles d. All of		
20.	Which of the fol	lowing represents the	dental formula of man	(JIPMER-2005)		
	a. $\frac{0.0.3.3}{3.1.3.3}$	b. $\frac{2.0.3.3}{1.0.2.3}$	c. $\frac{2.1.2.3}{2.1.2.3}$	d. $\frac{1.0.0.3}{1.0.0.3}$		
21.	The true stomach	n in ruminants where	most of digestion takes	s place is (JIPMER-2004)		
	a. Rumen	b. Omasum	c. Reticulum	d. Abomasum		
	a. Rumen		c. Reticulum ducation.com	d. Abomasum		

22.	Which of the following is both exocrine and endocrine gland (JIPMER-2004				
	a. Liver	b. Pancreas	c. Thyroid	d. Adrenal	
23.	Peyer's patches p	produce		(JIPMER-2004)	
	a. Mucus	b. Trypsin	c. Lymphocytes	d. Enterokinase	
24.	Protein deficienc	y disease is		(JIPMER-2003)	
	a. Eczema	b. Cirrhosis	c. Kwashiorl	cor d. Night blindness	
25.	A secretion that c	ligests both carbohy	drates and proteins is	(JIPMER-2003)	
	a. Ptyalin	b. Pepsin	c. Pancreatic	juice d. Saliva	
26.	Food is moved al	ong the alimentary of	canal by the contractio	n known as (JIPMER-2003)	
	a. Peristalsis	b. Epiglottis	c. Osmosis	d. Cyclosis	
27.	Villi are present i	in the	. +. C	(JIPMER-2003)	
	a. Large intestine	b. Small inte	stine c. Colon	d. Stomach	
28.	Fatty acids are ab	osorbed by the		(JIPMER-2003)	
	a. Lacteals	b. Pylorus	c. Colon	d. Capillaries	
29.	Hydrochloric aci	d in the stomach is s	ecreted by some specia	al type of cells called	
				(JIPMER-2003)	
	a. Peptic cells cells	b. Goblet cel	ls c. Oxyntic co	ells d. Gastric	
30.	Enzyme and carb	ohydrates dominate	in the digestive tract of	f (JIPMER-2003)	
	a. Carnivores	b. Omnivores	c. Parasites	d. Herbivores	
31.	In horses, rabbits	, hares the cellulose	gets digested in the	(JIPMER-2003)	
	a. Caecum	b. Stomach	c. Appendix	d. Remen	
32.	The pylorous is the	he constricted part o	f the alimentary canal	which is situated between (JIPMER-2003)	
	a. Stomach and d	uodenum	b. Oesophagus and s	tomach	
	c Duodenum and	Ileum	d. Ileum and rectum		
33.	The intestinal jui	ce, succus entericus	is secreted by	(JIPMER-2003)	
	a. Brunners gland Goblet cells	b. Kupffer ce	ells c. Crypts of	Leiberkuhn d.	

34.	Below freezing point, the pepsin							(JIPMER-2003)	
	a. Becomes over activated				b. Gets destroyed				
	c. Rema	ains un	affected				d. Gets inacti	ivated	
35.	Kupffer	r cells a	ells are found in						(JIPMER-2001)
	a. Bloo	d	b. He	art		c. Kidi	ney	d. Live	r
36.	How m	an teetl	n of hun	nans no	rmally	grow twi	ce		(JIPMER-2001)
	a. 16			b. 32			c. 12		d. 20
37.	Starch i	is conve	erted to	maltose	e by the	e action of	f		(JIPMER-2001)
	a. Malta	ase		b. Su	crose		c. Amylase		d. Invertase
38.	Richest	source	of vita	nin 'C'	is			$\Box \phi_{i}$	(JIPMER-2000)
	a. Lemon				b. Ora	nge			
	c. Em	c. Emblica officinalis (amla)				d. Capsi	icum frutescer	18	
39.	Match t	the colu	imns						(AIIMS-2011)
	Column-II Column-II			mn-II					
	(Vitam	nin) (Deficiency			disease)				
	A. <i>B</i> ₁ I.		I. Inf	ertility					
	B. D			II. Sc	curvy				
	C. E			III. B	eri-ber	i			
	D. C			IV. B	one de	formity			
	Codes		v						
	A	В	С	D					
	a.	III	IV	Ι	II				
6 V	b.	Ι	II	III	IV				
	с.	IV	III	Ι	II				
	d.	II	IV	Ι	III				
40.	The pH	of stor	nach is	1.6, the	n whic	h enzyme	will digest pr	otein	(AIIMS-2011)
	a. Tryp	sin		b. Pe	psin		c. Amylase		d. Erypsin

- 41. Th pH of the digestive juices within the human small intestine is between 7.5 and 8.5. This environment is slightly (AIIMS-2009)
- a. Basic b. Acidic c. Neutral d. None of these 42. Thiamine (B_1) deficiency results in (AIIMS-2009) a. Wernicke's syndrome b. Korsakoff's syndrome c. Osteonecrosis d. Tunnel vision 43. Assertion (A): Minerals are not biologically active substances (AIIMS-2009 Reason (R): Some individuals suffer anemia due to deficiency of copper 1. A and R are correct, R is the correct explanation of A 2. A and R are correct but R is not the correct explanation of A 3. A is true, R is false 4. A is false, R is true 44. In an experiment, freshly hatched larvae of an insect (khapra beetle) were reared on a
- In an experiment, freshly hatched larvae of an insect (khapra beetle) were reared on a basal diet (complete diet without cholesterol) with increasing amounts of cholesterol. Results obtained are shown in the graph given in the table (AIIMS-2008)



The graphs indicates

- a. Cholesterol is an essential dietary requirement of khapra beetle
- b. Growth of khapra beetle is directly proportional to cholesterol concentration
- c. Cholesterol concentration of 2ug/g diet is the optimum level

d. Growth of khapra beetle is inhibited when cholesterol concentration exceeds 2ug/g diet

Continued consumption of a diet rich in butter, red meat and eggs for a long period may lead to (AIIMS-2007)

- a. Vitamin 'A' toxicity b. Kidney stones
- c. Hypercholesterolemia d. Urine laden with ketone bodies
- 46. Which one of the following four secretions is correctly matched with its source, target and nature of action (AIIMS-2005)

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43.

	Secretion	Source	Target	Action		
	a. Gastrin	Stomach lining	Oxyntic cells	Production of HCl		
	b. Inhibin secretion of	Sertoli cells	Hypothalamus	Inhibition of		
	releasing			gonadotropin i hormone		
	c. Enterokinase	Duodenum	Gall bladder	Release of bile juice		
	d. Atrial natriuretic of renin	Sinuatrial node	Juxta glomerular	Inhibition of release		
	factor (ANF)	(SAN) m-cells of	apparatus (JGA)			
		Atria	+			
47.	Cattle fed with spoilt h	ay to sweet clover whi	ch contains dicumarol	(AIIMS-2004)		
	a. Are healthier due to	a. Are healthier due to good diet b. Catch infections easily				
	c. May suffer vitamin I	K deficiency and prolo	nged bleeding			
	d. May suffer from ber	iberi due to deficiency	of vitamin-B			
48.	Curding of milk in sma	all intestine takes place	due to	(AIIMS-2002)		
	a. Rennin	b. Trypsin	c. Chymotrypsin	d. Ptylase		
49.	Which of the following	g has minimum Ph		(AIIMS-2002)		
	a. Bile b. Sali	iva c. Gas	stric juice d. Par	creatic juice		
50.	Which of following tee	eth are lophodont		(AIIMS-2002)		
	a. Incisor and canine Premolar and incisor	b. Premolar and mola	ar c. Canine and	premolar d.		
51.	Wharton's duct is the c	luct of		(AIIMS-2002)		
C V	a. Parotid gland	b. Sub mandibular sa	livary gland			
	c. Sub maxillary gland	d. Pancreatic gland				
52.	Brunner's glands are p	resent in		(AIIMS-2001)		
	a. Duodenum	b. Oesophagus	c. Ileum	d. Stomach		

53.	Toxic substances are d	(AIIMS-2001)			
	a. Kidney	b. Lungs	c. Liver	d. Stomach	
54.	Assertion (A): Scurvy	v is caused by deficiend	cy of	(AIIMS-2001)	
	Reason (R): Deficiend	cy of ascorbic acid cau	ses scurvy		
	a. If both (A) and (R)	are true and (R) is the	correct explanation of ((A)	
	b. If both (A) and (R)	are true but (R) is not t	he correct explanation	of (A)	
	c. If (A) is true, but (R) is false			
	d. If (A) and (R) are fa	llse			
55.	The name of vitamin -		(AIIMS-2000)		
	a. Ascorbic acid	b. Glutamic acid	c. Aspartic acid	d. Enolic acid	
56.	Assertion (A): Tongu	e is a gustatory recepto	or	(AIIMS-2000)	
	Reason (R): Receptors for gustatory sensations are located in taste buds				
	a. If both (A) and (R)	are true and (R) is the	correct explanation of ((A)	
	b. If both (A) and (R)	are true but (R) is not t	he correct explanation	of (A)	
	c. If (A) is true, but (R) is false				
	d. If (A) and (R) are fa	llse			

<u>KEY</u>

ORAL CAVITY

1) c	2) c	3) c	4) d	5) c
6) b	7) d	8) d	9) a	10) d
11) b	12) b	13) c	14) a	15) c
16) d	17) b			

ALIMENTARY CANAL

18) b	19) d	20) a		
21) b	22) b	23) a	24) a	25) d
26) d	27) d	28) a	29) d	30) d
31) b	32) c	33) c	34) b	

DIGESTIVE GLANDS

35) a				
36) b	37) c	38) d	39) b	40) b
41) d	42) a	43) d	44) d	45) a
46) a	47) a	48) a	49) a	50) a
51) c	52) c	53) d	54) d	55) a
56) c	57) b	58) a	59) d	60) a

PROCESS OF DIGESTION

61) c	62) c	63) a	64) c	65) b
66) d	67) c	68) c	69) c	70) c
71) a	72) c	73) d	74) d	75) b
76) a	77) b	78) b	79) d	80) d
81) d	82) b	83) d	84) b	85) b
86) c	87) c	88) a	89) b	90) c
91) a	92) c	93) b	94) a	95) b
96) b	97) a	98) b	99) b	100) c
101) a	102) a	103) c	104) c	105) b
106) d	107) d	108) c	109) c	110) b
111) c	112) d	113) a	114) d	115) a
116) d	117) b	118) d	119) a	120) b
121) c	122) a	123) b	124) a	125) c
126) d	127) d	128) b	129) c	130) a
131) c	132) a	133) a	134) a	135) c
136) b	137) d	138) d	139) a	140) c
141) a	142) d	143) b	144) c	145) b
146) a	147) d	148) b	149) c	150) a
151) a	152) a	153) a	154) c	155) c
156) b	157) a	158) a	159) a	160) b
161) c	162) c	163) a	164) a	165) a
166) a	167) c	168) b	169) a	170) a
171)b	172) c	173) a	174) c	

EXCERCISE-I

1) d	2)a	3) d	4) a	5)d
6)d	7)b	8)b	9)a	10)c
11) c	12)a	13)a	14)b	15)c
16)c	17)d	18)c	19)d	20)c
21)d	22)b	23)c	24)c	25)c
26)a	27)b	28)a	29)c	30)d
31)a	32)a	33)c	34)d	35)d
36)d	37)c	38)c	39)a	40)b
41)a	42)a	43)d	44)a	45)c
46)d	47)c	48)a	49)c	50)b
51)b	52)a	53)c	54)b	55)a 56)a