# Human Physiology DIGESTION & ABSORPTION

1.	Assort	tion (A	)• The d	ligestive	action	of salir	varu amu	laca et	one wh	en the c	wallowed bolus enters		
1.	ASSUL			omach	action	of salivary amylase stops when the swallowed bolus enters							
	Dooco	n (D).			na ia ina	ctivated at the low pH of gastric juice							
			-	•				-	-	U U	C		
							t explana						
						not co	rrect exp	Tanatio	on or the	eА	$\mathbf{\wedge}$		
				is false									
			l R are f										
2.	Match		_	, and ch	loose th		ect answ	er			G		
	• •	Colun				Colur					<u>.</u>		
	A)	Haust				i) Pala							
	B)	Uvula					sopalatin	e duct					
	C)	Saccu	lus rotu	ndus		iii) Ph	arynx		0				
	D) Jacobson's organ					iv) Colon							
						v) Ileum							
		А	В	С	В		2	Α	В	С	D		
	a.	IV	Ι	V	II		b.	IV	Ι	V	III		
	c.	Ι	IV	II	V		d.	Ι	IV	III	V		
3.	The pa	apillae	arrang	ed in se	emicircl	e at th	e base of	f tong	ue are				
	a. Fung	giform		b. Filif	form	2	c. Folia	ite		d. Cir	cumvallate		
4.	Arran	ge the	followi	ng part	s in the	stoma	ch wall i	n the	correct	sequer	nce from the		
	outer	to the i	nner si	de	0								
	A. Cire	cular m	uscle fi	bers	B. Ser	osa	a C. Muscularis mucosa						
	D. Obl	lique m	uscle fi	bers	E. Col	umnar	ongitudi	itudinal muscle fibers					
	G. Sub	mucos	a										
	a. B-F-	-A-D-C	Ъ-С-Е	b. B-A	-F-D-G	-С-Е	c. B-F-	A-G-I	D-C-E	d. B-F	F-A-D-C-G-E		
5.	The ce	ells tha	t are no	ot found	l in the	gastric	c gland o	of rabl	oit are				
	a. Oxy	ntic cel	lls		b. Zyn	nogen c	ells	c. Par	ietal cel	lls	d. Kupffer cells		
6.	Choos	e the c	orrect s	stateme	nt								
	a. Defi	iciency	of prote	ein intak	ke cause	s kwas	hiorkor						
	b. Defi	iciency	of fat in	ntake ca	uses ma	arasmu	s disease						
	c. Defi	iciency	of mag	nesium	causes s	seborrh	eic sterili	ity					
	d. Defi	iciency	of niac	in cause	s sebori	theic de	ermatitis						
		-											

7.	Study the following and choose the correct answer										
	Salivary gla	ands C	Charac	ter							
	I) Infra-orbit	al - Sit	tuated	below the eye of	orbit						
	II) Parotid	- 0	pen th	ough Wharton	's duct						
	III) Sub max	illary - (	Open tl	nrough Stensen	's duct						
	IV) Sub ling	ual - Situ	uated b	elow the tongu	ie						
	a. I and II		b. II	and III	c. III a	and I		d. I a	nd IV		
8.	Amino acida	s are the	e only	end products l	by the ac	ction of	f which	of the	following enzymes acts on		
	the protein	constitu	ents?						G		
	a. Aminopep	otidase	b. Ca	rboxypeptidase	e c. Trij	peptida	se	d. Di	peptidase		
9.	The detoxify	ying org	an of t	the body is				• (			
	a. Liver			b. Pancreas		c. Sp	leen	X	d. Bone marrow		
10.	In normal c	onditior	ns, the	lower oesopha	ngeal spł	nincter	prever	its the	regurgitataion of		
	food from t	he									
	a. Cardiac st	omach te	o pylor	ic stomach		b. Cardiac stomach to fundic stomach					
	c. Cardiac st	omach te	o oesoj	phagus		d. Py	loric sto	omach t	o cardiac stomach		
11.	Formation of	of glucos	se in li	ver from non-	carbohy	drates	is calle	d			
	a. Glycogene	esis		b. Gluconeo	genesis	c. Lip	ogenes	is	d. Glycogenolysis		
12.	Match the f	ollowing	gs and	find out the co	orrect co	ombina	tion				
	Cells		Secr	etion							
	A) Zymogen	Cells	I) M	icus							
	B) Neck Cel	ls	II) Pe	epsinogen							
	C) Parietal C	Cells	III) C	Gastrin							
	D) G-Cells	N	IV) (	Castle's intrinsi	c factor						
	А	В	С	D		А	В	С	D		
	a. III	Ι	IV	II	b.	II	IV	Ι	III		
	c. III	IV	Ι	II	d.	II	Ι	IV	III		

13.	Read the following	ng										
	I. Health and vigour of epithelial tissues-vitamin A											
	II. Health and inte	II. Health and integrity of muscles-vitamin E										
	III. Integrity of en	dothelium -vitami	n C									
	IV. Functioning of	IV. Functioning of gonads-vitamin E										
	Which of the above	the above are true?										
	a. All are true	b. All except	IV	c. All except	II	d. All are false	°					
14.	Which of the foll	owing substances	are ab	sorbed into th	e cells a	nd into blood	by diffusi	on?				
	a. Amino acids			b. Fru	ctose							
	c. Short chain fatt	y acids		d. Lor	ng chain	fatty acids						
15.	Following are the	e enzymes that ac	t up on	proteins. Arra	ange th	em in a sequen	ce of thei	r action				
	a) Dipeptidase	b) Pepsin	c) Car	boxypeptidase	d) Trij	peptidase	e	) Trypsin				
	a. e-b-d-c-a	b. b-e-c-d-a		c. c-a-d-b-e	CiC	d.d-c-a-b-d						
16.	Mineral required	l for the formatio	n of ins	ulin is								
	a. Sulphur	b. Iodine		c. Cobalt		d. Copper						
17.	Proteolytic enzyr	nes which act in a	acidic m	edium are								
	a. Chymotrypsin,	rennin		b. Pepsin, Rei	nnin							
	c. Pepsinogen,Try	psinogen	$\sim$	d. Pepsin, Try	psin							
18.	Correct statemer	nt from the follow	ving is									
	a. Pyloric sphincte	er regulates the flo	w of foo	od in to the duc	odenum							
	b. Lower oesopha	geal sphincter prev	vents ba	ckward flow of	f food iı	nto duodenum						
	c. Pylorus is prese	ent between pyloric	c stoma	ch and fundic s	tomach							
	d. Cardia is preser	nt between cardiac	stomac	h and fundic st	omach.							
19.	Stensen's duct ar	nd wharton's duc	t are as	sociated with	the foll	owing glands						
	a. Parotid & sub n	naxillary	b. Paro	otid & sublingu	ıal							
	c. Sub maxillary &	k sublingual	d. Subl	ingual & Infra	orbital							
20.	Dietetics' is relat	ed to the study of	•									
	a. Nutritional diso	orders	b. Che	mical nature of	f food							
	c. Food stuff and i	nutrition	d. Min	erals & Vitami	in							
21.	Decreased blood	pressure, low pul	lse rate,	lowers than r	normal	body temperat	ure and 1	nental				
	retardation are t	he symptoms of										
	a. Obesity	b. Marasmus		c. Kwashiork	or	d. Caro	cinoma					

22. Match the following A) Enterokinase 1) Pancreatic juice 2) Bile juice B) Trypsionogen C) HCl 3) Saliva 4) Intestinal juice D) Ptyalin 5) Gastric juice The correct match is: А В С С D D А В 3 5 2 1 b. 4 5 2 1 a. c. 4 1 5 3 d. 1 4 5 2 23. Match the following A) Brunner's glands i) Pulp cavity B) Casein ii) Ileum C) Odontoblasts iii) Duodenum D) Crypts of Lieberkuhn iv) Rennin В С А В D C D iii i iv i i i i i a. iv i i i iv iii i i iii i c. iv Study the following 24. Associated Structure Function i) Islets of Langerhans Pancreas Secretion of pancreatic juice Gall bladder ii) Cystic duct Flow of gastric juice Carries saliva into buccal cavity iii) Stensen's duct Parotid gland iv) Wharton's duct Infra orbital gland Flow of saliva Which of the above two are correct? a. i & ii b. ii & iii c. Only iii d. ii & iv 25. Arrange the following secretions of digestive glands into the alimentary canal from anterior to the posterior end E. Buccal cavity A. Pancreas B. Liver C. Rectum D. Stomach F. Vestibule G. Pharynx a. ABCDEFG b. CDBFAEG c. FGBDACE d. FEGDBAC

# 26. Match the following:

	Sphincter					Location between								
	-	Sphincter	of odd	i		I) Bile duct and proximal limb of duodenum								
	B) L	Lower oe	sophage	eal sphi	ncter	II) Pyloric stomach and duodenum								
	C) P	yloric sp	ohincter	•		III) Pharynx and oesophagus								
	D) (	D) Upper oesophageal sphincter					Desopha	gus and	d cardiad	e stomach				
	The correct match is:						-	-						
		А	В	С	D		А	В	С	D				
	a.	Ι	II	III	IV	b.	Ι	II	IV	III		$\mathbf{O}$		
	c.	Ι	IV	II	III	d.	II	Ι	III	IV	C	5		
27.	Asse	ertion (A	(): Flow	v of bile	into du	odenur	n is con	trolled	by sphir	cter of O	ddi			
	Rea	son (R):	Openir	ng of co	mmon b	ile duc	t into du	ıodenuı	m is gua	rded by C	)ddi sphin	cter		
	a. A	and R a	re corre	ct and F	R is the	correct	explana	tion of	A	X C				
	b. A	and R a	re corre	ect and H	R is not	the cor	he correct explanation of A							
	c. A is true R is false						d. A is false R is true							
28.	<b>Assertion</b> (A): Urea is produced by Liver													
	Reason (R): Ornithine cycle takes p					place in liver								
	a. A and R are correct and R is the c						correct explanation of A							
	b. A and R are correct and R is not t						he correct explanation of A							
	c. A	is true F	R is fals	e	1	C	d. A :	is false	R is true	e				
29.	Loca	ations of	f palati	ne phar	yngeal	and lii	ngual to	nsils re	espectiv	ely are:				
	a. Tl	hroat, na	sophary	nx and	back of	the tor	ngue							
	b. N	asophary	ynx, bad	ck of the	tongue	and th	roat							
	c. Tl	hroat, laı	ryngoph	arynx a	nd orop	nanrynx								
	d. T	hroat, ba	ick of th	ne tongu	e and la	ryngop	ngopharynx							
30.	Arra	ange the				ets form	ned dui	ring the	e proces	s of diges	stion of p	roteins		
		eptones		nino aci			lypeptic	le d. Pi	roteins	e. Tripe	eptides f.	Dipeptides		
		-c-a-e-f-t			ı-e-c-f-t			l-c-e-f-l		d. d-a-c	e-e-f-b			
31.		of the f							bile juio	ce				
		onversio		•	me into	alkalin	e nature							
		mulsifica		fats										
		igestion												
	d. A	bsorptio	n of pro	oducts of	f digeste	ed fats								

#### 32. Sphincter of oddi regulates the flow of

- a. Chyme from pyloric stomach into duodenum
- b. Pancreatic juice from pancreas into duodenum
- c. Succus entericus from ileum into duodenum
- d. Bile juice from gall bladder into duodenum

#### 33. Which vitamin deficiency is reported from person who eats raw eggs?

- a. Vitamin that maintains integrity of matrix of skeletal tissues and provides resistance against infections
- b.Vitamin that acts as a coenzyme for enzyme carboxylase
- c. Vitamin that is commonly called anti pellagra vitamin
- d. Vitamin that forms component of FMN and FAD

#### 34. The following are the statements about enzyme pepsinogen

- A. It is an inactive proteolytic enzyme
- B. It is activated by HCl only
- C. The active form of this enzyme having auto catalytic property
- D. The products of digestion of proteins by pepsin include proteoses, peptones and paracasein
- a. A and D b. B and C c. A and C d. C and D

# **35.** The following parts are related to the teeth

A. Dentine B. Lining odontoblasts C. Periodontal membrane D. Pulp cavity

E. Cement

## Arrange them in **correct** sequence from central cavity towards the socket

a. D-B-A-C-E b. D-A-B-E-C c. D-B-A-E-C d. D-A-B-C-E

## **36.** Match the following:

# ProcessOrgans concernedA) EgestionI) Mouth, Buccal cavity & pharynxB) DigestionII) Rectum & AnusC) AbsorptionIII) Stomach & Small IntestineD) IngestionIV) Small intestine & large intestinea. A-II,B-III,C-IV,D-Ib. A-IF,B-IV,C-III,D-Ic. A-I,B-III,C-IV,D-IId. A-II,B-I,C-IV,D-IIIWhich of the following regions of the alimentary canal does not secrete a digestive

#### enzyme?

37.

a. Oesophagus	b. Stomach	c. Duodenum	d. Ileum
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#### 38. Pepsin differs from trypsin in that it digests a. Proteins in acidic medium in duodenum b. Proteins in acidic medium in stomach c. Proteins in alkaline medium in duodenum d. Proteins in alkaline medium in stomach 39. Anus is guarded by a. Internal anal sphincter of striated muscles and external anal sphincter of smooth muscles b. Internal anal sphincter of smooth muscles and external anal sphincter of striated muscles c. Both internal and external anal sphincters of striated muscles d. Both internal and external anal sphincters of smooth muscles **40.** Mineral essential for the formation of RBC is a. Iodine b. Calcium c. Manganese d. Cobalt 41. Emulsified fats are digested by a. Gastric juice and pancreatic juice b. Pancreatic juice and bile juice c. Bile juice and intestinal juice d. Intestinal juice and pancreatic juice 42. Statements-I(S-I) Liver performs gluconeogenesis Statement(S-II): Liver converts glycogen into glucose whenever glucose is necessary a. Both (S-I) and (S-II) are true and (S-II) is the correct explanation of (S-I) b. Both (S-I) and (S-II) are true but (S-II) is not the correct explanation of (S-I) d. (S-I) is false (S-II) is true c. (S-I) is true (S-II) is false 43. Glucose is the end product of which of the following in liver a. Gluconegoenesis and glycogenesis b. Glycogenesis and lipogenesis c. Lipogenesis and glycogenolysis d. Glycogenolysis and gluconeogenesis Conversion of amino acids and lactate into glucose is called 44. a. Glucogenesis b. Glycogenolysis c. Glycogenesis d. Gluconeogenesis 45. The gland cells of stomach that secrete HCl are a. Zymogen cells b. Chief cells c. Oxyntic/Parietal cells d. Mucus cells

1.	a	11.	b	21.	с	31.	с	41.	d
2.	a	12.	d	22.	с	32.	d	42.	b
3.	d	13.	a	23.	b	33.	b	43.	d
4.	a	14.	с	24.	с	34.	с	44.	d
5.	d	15.	b	25.	d	35.	с	45.	a
6.	a	16.	a	26.	с	36.	a		
7.	d	17.	b	27.	а	37.	a		XIO'
8.	d	18.	а	28.	а	38.	b		CO
9.	а	19.	а	29.	а	39.	b	2	
10.	с		с			40.	d		
					Y	5			
				C	0	•			
			5	•					
		N							

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