PØWEREXERCISE

Which one of the following vitamins is not fat soluble? (a) A (b) B (c) D (d) E (AMU)	(a) cysteine (c) ferredoxin 11. A balanced diet does not	(b) (d)	(AIPMT P	relati
(a) A (b) B (c) D (d) E (AMU)	(a) cysteine (c) ferredoxin 11. A balanced diet does not	(b) (d)		
(a) A (b) B (AMU) (c) D (d) E (AMU) 2014	11. A balanced diet does not	(d)		
(c) D (d) E (AMU) 2014	11. A balanced diet does not	include		W
The fact by	(a) carbohydrates and for			1
The fact by	(a) careering areas are	ate		
	(b) nucleic acids and en	zymes		
Which one of the following vitamins is anti-haemorrhagic?	(c) proteins and vitamin	IS .	active in the state of	
(a) Vitamin B ₁₂ (b) Vitamin B ₅ (AllMS)	(d) minerals and salts.		(Karnata)	ka C
a la make lenshour a reproduction of air				
A healthy person eats the following diet-5 cm raw sugar	grand viloriadistra ila istoria di	and a	and trafferen	
3. Ahealthy person eats the following diet-5 gm raw sugar,	12. Vitamin B_6 is also called			
4 gm albumin, 10 gm pure buffalo ghee adultrated with	(a) thiamine (c) pyridoxine	(b)		(AIM
2 gm vegetable ghee (hydrogenated vegetable oil) and				(Area
5 gm lignin. How many calories he is likely to get?	13. Vitamin-D is produced in			
(a) 126 (b) 164	(a) muscles	. ,	nerves	
(c) 112 (d) 144	(c) skin	(d)	bone-marrow.	NB JE
(NEET Karnataka)	A Section of the sect		,	
Which of the following elements is a constituent of biotin?	2009			
(a) Magnesium (b) Calcium	14. In human percent of boo	dy wei	ght of carbohy	ydrati
(c) Phosphorus (d) Sulphur	lipids and proteins respec			
(NEET Karnataka)	(a) 1, 15, 17		15, 17, 7	
2012	(c) 7, 17, 15		17, 15, 7.	(AM
	15. The number of essential a			uman
5. In a normal adult, ascending order of concentration of	(a) nine		eight	(QJE
following molecules is	(c) four		Seven.	,
(a) K > Na > Fe > Cu (b) Na > K > Cu > Fe (c) Fe > Na > K > Cu (d) Na > Fe > K > Cu	16. Which of the following	s used	for long term	enci
(c) $Fe > Na > K > Cu$ (d) $Na > Fe > K > Cu$. (AIIMS)	storage by animals?			
6. Cyanocobalamine is required for the maturation of	(a) Amino acids	(b)		(QLE
(a) RBC (b) platelets	(c) Fat	(d)	Glycogen	10
(c) WBC (d) lymph. (AFMC)	2008			
7. Which of the following acid is also a vitamin?	17. Anti-haemorrhagic vitam	in is		
(a) Ascorbic acid (b) Formic acid	(a) vitamin C	(b)	vitamin B	_
(c) Malic acid (d) Palmitic acid	(c) vitamin A	(d)	vitamin K.	(Bř
(AFMC).	The contract of the contract o			_
3. Which one of the following vitamins is manufactured	16.2: Alimer	ntarv	Canal	
in human liver?	le la			
(a) Vitamin A (b) Vitamin D	2017			
(c) Vitamin C (d) Vitamin K (BHU)	18. Which cells of 'crypt	s of	Lieberkuhn'	sect
2011	antibacterial lysozyme?			
. The purplish red pigment rhodopsin contained in the	(a) Paneth cells	(b)	Zymogen cell	S
rods type of photoreceptor cells of the human eye, is a derivative of	(c) Kupffer cells	(d)		ells (NE

- 19. A baby boy aged two years is admitted to play school and passes through a dental check-up. The dentist observed that the boy had twenty teeth. Which teeth were absent?

 - (a) Canines (b) Pre-molars
 - (c) Molars
- (d) Incisors

(NEET)

- 20. Which of the following guards the opening of hepatopancreatic duct into the duodenum?

一月中华 17

- (a) Pyloric sphincter (b) Sphincter of Oddi
- (c) Semilunar valve
- (d) Ileocaecal valve

(NEET Phase-I)

- 21. In the stomach, gastric acid is secreted by the
 - (a) peptic cells
- (b) acidic cells
- (c) gastrin secreting cells (d) parietal cells.

(NEET Phase-I)

- 22. The main function of the lacteals in the villi of human small intestine is to absorb
 - (a) fat globules atoma disease and disease
 - (b) water and mineral salts

AND REPORT AND FE

- (c) amino acids
- (d) glucose and amino acids
- (e) glucose and water.

(Kerala PMT)

2015

- 23. The primary dentition in human differs from permanent dentition in not having one of the following type of to month (d teeth.
 - (a) Molars
- (b) Incisors
- (c) Canines (d) Premolars
 - (AIPMT)
- 24. Vermiform appendix arises from
 - (a) caecum
- (b) colon

Details:

- (c) rectum
- (d) ileum.
- (AMU)
- 25. Brunner's glands are found in

(b) Panorus

- (a) duodenum (b) jejunum
- (c) stomach
- (d) both (a) and (b).

(JIPMER)

- 26. Choose the correct statement among the following.
 - (a) The intestinal mucosal epithelium has oxyntic cells.
 - (b) Ptyalin converts proteins into proteoses and peptones.
 - (c) Crypts of Lieberkuhn is seen between the bases of villi in the intestine.
 - (d) Sphincter of Oddi is present at the junction of oesophagus and cardiac stomach.
 - (e) Goblet cells secrete hydrochloric acid in stomach. trace (Kerala PMT)
- 27. The epithelium found in the inner linings of stomach and intestine is

- (a) columnar
- (b) squamous
- (c) stratified
- (d) pseudo-stratified.

(WB JEE)

2014

- 28. The middle part of the small intestine is
 - (a) duodenum
- (b) jejunum
- (c) ileum
- (d) pyloric region.

(J & K CET)

2013

- 29. Ileocaecal valve is present in between
 - (a) colon and large intestine
 - (b) colon and small intestine
 - (c) stomach and small intestine
 - (d) cardiac stomach and fundus.

(Karnataka CET)

2012

- 30. Argentaffin cells in human beings are found in
 - (a) small intestine
- (b) stomach
- (c) large intestine
- (d) liver.

(AMU)

- 31. In human beings, the three pair of salivary glands and numerous buccal glands produce about
 - (a) 1.0 dm³ of saliva per day
 - (b) 1.5 dm³ of saliva per day
 - (c) 2.0 dm³ of saliva per day
 - (d) 2.5 dm³ of saliva per day.

(AMU)

- 32. In the gastrointestinal tract the Meissner's plexus and the Auerbach's plexus occur respectively in the
 - lamina propria and muscularis mucosa
 - (b) submucosa and muscularis externa
 - (c) submucosa and mucosa
 - (d) mucosa and muscularis externa.

(AMU)

(Kerala PMT)

- 33. The layer lining the lumen of the human alimentary canal is
 - (a) serosa
- (b) sub-mucosa
- (c) muscularis
- (d) pleura
- (e) mucosa.

2011

- 34. Which one of the following correctly represents the normal adult human dental formula?
 - 3 1 3 1 (a) 3'1'2'1

(AIPMT Mains)

- 35. The mucosal layer in the stomach form irregular folds known as
 - (a) villi
- (b) lumen
- (c) rugae
 - (d) crypts of Lieberkuhn
- (e) lacteals.
- (Kerala PMT)

36.	Col	umn I contains name	es of	the sphincter muscles	42. Pa	art of the stomach wh	ich op	ens into the	duodenna
33	of t	he alimentary canal a	nd Co	olumn II contains their	(a)) cardiac	(٢	p) pyloric	
18	loca	ations. Match them pro	perly	and choose the correct	(c)) fundus	(d	l) body.	(BH
	ans	wer.		1100		A DESCRIPTION OF			700
		Column I		Column II		16.3: Dige	stive	Glands	10
	A.	Sphincter of	, al.	Opening of hepato-	7744	TO.O. Digo	21144	GIGITAG .	
		ani internus		pancreatic duct into duodenum	2017				0.15
As	B.	Cardiac sphincter	2.	Between duodenum	43. W	harton's duct is the d	uct of		
. 13.20	-1.	and the second second		and posterior	(a)			gland	
•				stomach E.125	(b)	the second secon			
	C.	Sphincter of Oddi	3.	Guarding the	(c)	sublingual gland			
		377742	tni as	terminal part of	(d)	all of these.			(AJIM
511	-	town	54 14	alimentary canal	44. In	man, bile duct joi	ins wi	ith pancrea	tic duct
	D.	Ileocaecal	4.	Between oesophagus		m which is gua			
173) bata	h make the mi	10 77 11	sphincter and	(a)			cystic du	
			1	anterior stomach	(c)			Wharton'	
	E.	Pyloric sphincter	5.	Between small	Horas-	1-1.11	. ,		(JIPME
		through the large large	ered a	intestine and bowel	0045	to threath makes	-A-76		2519
		A-3, B-2, C-4, 1			2015			a area to a	
		A-2, B-5, C-1, I	-		45. Ide	entify the correctly	matcl	hed structu	re and i
FUE		A-3, B-4, C-1, I	-	The state of the s		retion.	× 15.19		
	(a)	A-4, B-3, C-1, I	υ – 2 ,		(a)	Brunner's gland - S	alivar	y amylase	
	_	The second open	1-14	(Karnataka CET)	(b)	Intestinal mucosa -	Insuli	n	
37.		lusive holozoic nutriti		the state of the s	(c)	Gall bladder - Bile			
	(a)	P 15	T 17776	man	(d)	Salivary gland - Lys	sozym		
	(c)	housefly	(a)	earthworm.	(e)	Goblet cells - HCl		(4	Kerala PM
(3)		# AND B	g pyth	(OJEE)	46. The	e hormone that stimul	ates th	ne release of	pancreati
20	10	a. 4.1914 sat 125	e toey	AL lathe vascoi is		e is a line and to and			
38.	Hur	nan dental formula is		in the American	(a)	secretin		glucagon	0.00
		2123		2123	(c)	inhibin	(d)	insulin.	(WB JEE
	(a)	2123 matra analism	(b)	1223 Palar, (d)	47. Zyr	nogenic cells of gastr	ic glan	nd secrete	
		1223	走	1223	(a)	pepsinogen	(b)	trypsin	
100	(c)	2123	(d)	1223 1223	(c)		(d)	chymotryp	
4 157	15/12	2213	M. M.	33. The inversions	TURNAL!	a suppose (4)			(WB JEE)
	(e)	2213		No. of Partiety	2014	TO SHUBIT HOUSE			
		CESTER OF (F)		(Kerala PMT)		in par	int ons	spons s	- dues es
-	-	Transit the	31	eneign con		ich of the following o	rgans	does not pr	oduce any
39.		type of teeth present				estive enzymes?	(b)	Pancreas	
		monophyodont and l diphyodont and hete			(c)	Salivary gland Liver	(b) (d)	Stomach	
		diphyodont and hom			(0)	andidig same was	(u)	Stomach	(WB JEE)
		monophyodont and t				sed mehantida (*soa		TABLE IN	That i
	(4)	monophy odom and i		(OJEE)	2012	- 2" ("1177)			
40	The	distal part of the	stom	ach that opens into	49. Bru	nner's glands are foun	d in	ros min	
		enum is called	Ston	men that opens into	(a)	mucosa of duodenum	1		
		fundus	(b)	pylorus (°)	(b)	mucosa of ileum			
		omentum		jejunum. (OJEE)	(c)	submucosa of duode			/DUID
1539	ALC: NO		115	State (School	(d)	submucosa of ileum.			(BHU)
200		the form in the state of the st		avel incommend BE		nan, Glisson's capsule			
			exter	sions on the intestinal		digestive system	, ,	excretory s	
		elium is known as	(L)	1111	(c)	nervous system	(d)	reproductiv	e system
		brush border		villi. (AMU)	time (e)	endocrine system.		(Va	rala PMT)
110	(c)	cilia	(u)	villi. (AMU)				NA THEFT (VC	ada i mi)

Cholecystokinin and secretin (a) duodenum (b) jejunum (d) rectum. (WB JEE) (d) lieum (d) rectum (d) lieum and glucago (lieum pepsin enterokinase, because (a) trypsinogen is not converted into trypsin procentin is in ot converted into trypsin (c) procentin is not converted into trypsin (c) procentin is not converted into trypsin (c) procentin is not converted into trypsin (d) they form (lieum procentin is not converted into trypsin (c) procent in the absence of enterokinase, (all of the following reactions (all of the following reactions and choose the correct option. (Cardal PMI) (c) (d) propring in the converted into trypsin (c) procent in the absence of enterokinase, (all of the following reactions and choose the correct (c) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d			
December 2010 Digestion of proteins is incomplete in the absence of enterokinase, because of enterokinase, because (a) trypsinogen is not converted into trypsin (b) persinogen is not converted into trypsin (c) ecsophagus (d) stomach. (AFMC) (d) duct of Santorini. (AMU) (d) dispanceatic duct (e) dipanceatic duct (f) hepatopancreatic ampulla (f) hepato	51.	Brunner's gland is present in	(c) Cholecystokinin and secretin (d) Insulin and glucagon (NEET Phase-II)
policy springers is pland is present in (a) liver (b) duodenum (c) cosophagus (d) stormach. (AFMC) ((d)t (MD IEE)	
g. Brunner's gland is present in (a) liver (b) duodenum (c) oesophagus (d) stornach. (AFMC) 3. This is the common passage for bile and pancreatic juices (a) ampulla of Vater (b) ducts Choledochus (c) duct of Wirsung (d) duct of Santorini. (AMU) g. Glisson's capsule is the characteristic feature of (a) mammals (b) birds (c) reptiles (d) arthropods. (BHU) g. The sphincter of Oddi found in man, guards the (a) pancreatic duct (b) hepatopancreatic duct (c) bile duct (d) cystic duct (e) duodenum. (Kerala PMT) 2008 g. In humans, sphincter of Oddi is associated with the opening of (a) hepatopancreatic ampulla (b) pyloric stornach (c) cosophagus (d) common hepatic duct. (d) Cystic duct (e) Thyroid (b) Pancreas (c) Thyroid (c) Pancreas (c) Thymus (d) Liver (UP CPMT) 16.4: Digestion of Food 2017 g. Which of the following options best represents the enzyme composition of pancreatic juice? (a) Amylase, Pepsin, Trypsinogen, Procarboxypeptidase (d) Amylase, Pepsin, Trypsinogen, Procarboxypeptidase (d) Amylase, Peptidase, Trypsinogen, Procarboxypeptidase (d) Amylase, Peptidase, Trypsinogen, Procarboxypeptidase (d) Amylase, Peptidase, Trypsinogen, Rennin (NEET) 2016 g. Which hormones do stimulate the production of pancreatic juice and bicarbonate? (e) Stornach (d) duct of Santorini. (AMU) (d) duct of Santorini. (AMU) (d) Chymotrypsinogen is not converted into pensin in ot converted into chrymotrypsinogen is not converted into ch	on:		enterokinase, because
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(a) Angiotensin and epinephrine (b) Gastrin and insulin (c) nitrate, ammonia (d) ammonia, nitrate (UP CPM	•	And A Company of the Property	(b) ammonia, ulea
(b) Gastrin and insuling a constitution of the			(c) nitrate, ammonia (d) ammonia, nitrate
			this easy)

106. The wall of the stomach is protected against the action of HCl by	116. Which of the following cells produce HCl? (a) β-Cell (b) α-Cell
(a) epidermal layer (b) mesodermal layer (c) mucous layer (d) muscular layer.	(c) Oxyntic cell (d) Chief cell
(J & K CET)	(WB JEE
107. The gastric juice contains	2009
(a) trypsin, pepsin, lipase	117. Which one of the following pairs of food components
(b) pepsin, lipase, rennin	in humans reaches the stomach totally undigested?
(c) pepsin, amylase, trypsin	(a) Starch and fat (b) Fat and cellulose
(d) trypsin, pepsin, rennin	(c) Starch and cellulose (d) Protein and starch
(e) pepsin, rennin, carboxypeptidase.	(AIPMT)
(Kerala PMT)	118. The food that enters intestine from stomach is called
108. Match column I with column II and choose the correct	(a) chyle (b) chyme
option.	(c) fundus (d) none of these.
Column I Column II	(AFMC)
A. Goblet cells 1. Antibacterial agent	119. Secretin
B. Lysozyme 2. Mucus C. Saliva 3. HCl	(a) stimulates enzyme secretion by pancreas, inhibit
	acid secretion in stomach, stimulates gall bladder
D. Oxyntic cells 4. Sublingual gland (a) A-3, B-1, C-4, D-2	(b) stimulates bicarbonate secretion by pancreas
(b) A-1, B-3, C-4, D-2	inhibits acid secretion in stomach, stimulates bicarbonate secretion by liver
(c) A-2, B-3, C-1, D-4	
(d) A-4, B-1, C-2, D-3	(c) stimulates acid secretion in stomach, potentiates action of CCK, inhibits intestinal movement
(e) A-2, B-1, C-4, D-3 (Kerala PMT)	(d) stimulates gall bladder, inhibits acid secretion
109. The sugar present in milk is	in stomach, stimulates bicarbonate secretion by
(a) fructose (b) sucrose	pancreas.
(c) glucose (d) lactose	(AMU)
(Kamataka CET)	120. In the absence of enterokinase, the digestion of
110. Succus entericus is secreted by	would be affected in our intestine.
(a) Auerbach's plexus (b) Brunner's glands	(a) albumin (b) starch
(c) Peyers patches (d) Crypts of Lieberkuhn (Kamataka CET)	(c) maltose (d) amino acid (Karnataka CET)
111. Bile salts in bile help in of fats.	121. Compare the statements A and B.
(a) dehydration (b) deglutition	Statement A: Blood sugar level falls rapidly after
(c) emulsification (d) peristalsis (OJEE)	
112. Which of the following are proteolytic enzymes?	hepatectomy.
(a) Ptyalin, trypsin, pepsin	Statement B: The glycogen of the liver is the principal source of blood sugar.
(a) Ptyalin, trypsin, pepsin(b) Lipase, erepsin, trypsin	Statement B: The glycogen of the liver is the principal source of blood sugar. Select the correct description.
(a) Ptyalin, trypsin, pepsin(b) Lipase, erepsin, trypsin(c) Erepsin, trypsin, pepsin	Statement B: The glycogen of the liver is the principal source of blood sugar. Select the correct description. (a) Statement A is wrong and B is correct.
 (a) Ptyalin, trypsin, pepsin (b) Lipase, erepsin, trypsin (c) Erepsin, trypsin, pepsin (d) Pepsin, nuclease, nucleotidase (OJEE) 	Statement B: The glycogen of the liver is the principal source of blood sugar. Select the correct description. (a) Statement A is wrong and B is correct. (b) Both the statements A and B are correct and B is
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14. Gast	pepsin	(b) r	ennin		2012				
(c)	gastric lipase		ll of these.	Р СРМТ)	mos	ng absorption trapidly transp glucose	ported monos		olood the
2008						fructose		sucrose.	
or Whi	ch one of the follow	ing is the	COrrect mat	ching of	(0)	Hactose	(5)	3401330.	(BHU)
the :	site of action on the	given su	ubstrate, the	enzyme	2010				11
actin	ng upon it and the er	id produc	ct?	-	2010		2		
(a)	Small intestine : protei	ns Peps	in amino aci	ids		rier ions like stances like	Na ⁺ facilit	ate the absor	rption of
(b)	Stomach : fats Lipa					amino acids	and glucose		
(c)	Duodenum: triglycerid	es Trypsi	monoglyce monoglyce	erides		glucose and	_		
(d)	Small intestine : starch	α Amylase	→ disaccharide	e (maltose)		fatty acids ar			
				(AIPMT)		fructose and		acids.	
126. Wh	at will happen if the	e secretic	on of parieta	l cells of				(AIPM	T Prelims)
gas	tric glands is blocke	d with an	inhibitor?		133. The	e food materia	ls in intestine	are absorbed	through
(a)	In the absence				(a)	cilia) flagella	F1.1
B.S.	pepsinogen is no	t conve	rted into th	ne active	(c)	villi	(d) vibrissae.	(OJEE)
(b)	enzyme pepsin. Enterokinase will	not be	ralessed	from the	2009				
(0)	duodenal mucosa	and so	trypsinoge	en is not	134. W	nich one of the	following sta	tements is true	regarding
	converted to tryps		u) pomoge	11 15 1101		gestion and ab			
(c)	Gastric juice will		ent in chymo	osin.		Fructose an			
	Gastric juice will I					intestinal m	nucosa with	the help of c	arrier ions
				(AIPMT)		like Na ⁺ .			
	od that enters into in				(b)) Chylomicro			
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	bolus		chyme				-	om intestine	into blood
(c)	chyle	(d)	none of the			capillaries.		hudealusad	h.,!:
	Elfan v tin			(AFMC)	(c) About 60%	our mouth.	s llydrolysed	by salivary
	of gastric juice is	Hara	51 120		(d	Oxyntic o		stomach s	secrete the
	2	(b)		(0.155)	•		pepsinogen.		2011
(c)	6 gray days	(d)	8.	(OJEE)		process, see			(AIPMT)
16	E. Absorption	of Dies	ated Dre	duata		lost digestion			
10.	5: Absorption	שפוט זכ	stea Pro	aucis) stomach		b) small into	
2014		. 33		.1. 17	(0	c) large intes	tine (d) caecum.	(OJEE)
	DIFFIAL LEAVES TYPE	Land Marie			2008	3			
129. Fr	uctose is absorbed	into the	blood throu	gh mucosa		ats and lipids	are absorbed	in	1105
	lls of intestine by th					ats and lipids a) lymph cap		(b) blood ca	nillaries
(a		(b)	facilitated	transport		c) hepatic po		(d) none of	-
(c	•			/AIDMT		c) hepane pe		(-)	(AFMC)
(d	The second secon	hanism.	and the same	(AIPMT)					J. 114
2013	or causing and	areas at	TWO LEAD		1	6.6: Disor	ders of D	iaestive S	vstem
130. Se	elect the correct ma	tch of th	ne digested	products in	n	0.01 2.00.		900000	, , , , , , , , , , , , , , , , , , ,
h	umans given in colu	umn I wi	ith their abs	orption site	201	5			
aı	nd mechanism in co	lumn II.					v of which	of the follow	ing vitamins
	Column I	TE ME	Column			will cause xero		or the lonew	mg vitamins
(a) Glycerol, fatty ac	ids	Duodenur			(a) A		(b) B	
O.) Cholosta-1		as chylom Large inte			(c) C		(d) K	(AMU)
()) Cholesterol, malt	ose	active abs	orption			bleeding gu	ms is advised	to take fresh
(0	c) Glycine, glucose	ST YORKS	Small inte						y because he
	Joine, gracose		active abs	sorption		suffers from			1 1 1-17
(0	d) Fructose, Na ⁺		Small into	estine,		(a) scurvy		(b) night b	
	the state of the state	payaria.	passive al	osorption	n	(c) beri-beri		(d) anaem	ia. (COMEDK)
BRITISH.	to the student of the beauty	as strong	THE REST WAY	(NEE	<i>')</i>				195

EXERCISES

- Choose the correct answer among the following: 1.
 - (a) Gastric juice contains
 - (i) pepsin, lipase and rennin
 - (ii) trypsin, lipase and rennin
 - (iii) trypsin, pepsin and lipase
 - (iv) trypsin, pepsin and renin
 - (b) Succus enterious is the name given to
 - a junction between ileum and large intestine (i)
 - (ii) intestinal juice
 - (iii) swelling in the gut
 - (iv) appendix
- Match column I with column II

Column I	Column II			
(a) Bilirubin and biliverdin	(i)	Parotid		
(b) Hydrolysis of starch	(ii)	Bile		
(c) Digestion of fat	(iii)	Lipases		
(d) Salivary gland	(iv)	Amylases		

- Answer briefly: 3.
 - (a) Why are villi present in the intestine and not in the stomach?
 - (b) How does pepsinogen change into its active form?
 - (c) What are the basic layers of the wall of alimentary canal?
 - (d) How does bile help in the digestion of fats?
- State the role of pancreatic juice in digestion of proteins. 4.
- Describe the process of digestion of protein in stomach. 5.
- Give the dental formula of human beings. 6.
- Bile juice contains no digestive enzymes, yet it is important for digestion. Why? 7.
- Describe the digestive role of chymotrypsin. Which two other digestive enzymes 8. of the same category are secreted by its source gland?
- How are polysaccharides and disaccharides digested? 9.
- What would happen if HCl were not secreted in the stomach? 10.
- How does butter in your food get digested and absorbed in the body? 11.
- Discuss the main steps in the digestion of proteins as the food passes through 12. different parts of the alimentary canal.
- Explain the term the codont and diphyodont.
- Name different types of teeth and their number in an adult human. 13. 14.
- What are the functions of liver? 15.

EXERCISES

- Define vital capacity. What is its significance?
- State the volume of air remaining in the lungs after a normal breathing.
- Diffusion of gases occurs in the alveolar region only and not in the other parts of respiratory system. Why?
- What are the major transport mechanisms for CO,? Explain.
- What will be the pO2 and pCO2 in the atmospheric air compared to those in the alveolar air?
 - pO, lesser, pCO, higher (i)
 - pO, higher, pCO, lesser (ii)
 - pO2 higher, pCO2 higher (iii)
 - pO₂ lesser, pCO₂ lesser (iv)
- 6. Explain the process of inspiration under normal conditions.
- 7. How is respiration regulated?
- What is the effect of pCO₂ on oxygen transport?
- What happens to the respiratory process in a man going up a hill?
- 10. What is the site of gaseous exchange in an insect?
- Define oxygen dissociation curve. Can you suggest any reason for its sigmoidal 11.
- Have you heard about hypoxia? Try to gather information about it, and discuss 12. with your friends.
- Distinguish between 13.
 - (a) IRV and ERV
 - (b) Inspiratory capacity and Expiratory capacity.
 - (c) Vital capacity and Total lung capacity.
- What is Tidal volume? Find out the Tidal volume (approximate value) for a healthy 14. human in an hour.

PØWER EXERCISE

17.1: Human Respiratory System

2015

- 1. Bowman's glands are found in
 - (a) olfactory epithelium
 - (b) external auditory canal
 - (c) cortical nephrons only
 - (d) juxtamedullary nephrons.

(JIPMER)

- 2. The entry of food into the larynx is prevented by
 - (a) mitral valve
- (b) diaphragm
- (c) epiglottis
- (d) hyoid
- (e) frenulum.

(Kerala PMT)

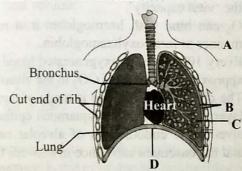
2014

- 3. The serous membrane which covers the lungs is called
 - (a) pericardium
- (b) peritoneum
- (c) perichondrium
- (d) pleura.

(WB JEE)

2013

 The figure shows a diagrammatic view of human respiratory system with labels A, B, C and D. Select the option which gives correct identification and main function and / or characteristic.



- (a) C Alveoli Thin walled vascular bag like structures for exchange of gases
- (b) D Lower end of lungs Diaphragm pulls it down during inspiration
- (c) A Trachea Long tube supported by complete cartilaginous rings for conducting inspired air
- (d) B Pleural membrane Surrounds ribs on both sides to provide cushion against rubbing (NEET)
- 5. The trachea terminates into
 - (a) bronchial tree
- (b) atrium
- (c) bronchi
- (d) alveoli.

(Karnataka CET)

2012

- 6. Surfactant
 - (a) is a protein produced by type II alveolar cells
 - (b) is excessive in many premature infants resulting in difficulties in breathing

- (c) decreases the surface tension of the fluid lining the alveoli
- (d) is lacking in individuals suffering from acute respiratory distress syndrome. (J & K CET)
- 7. Alveoli are present in
 - (a) lungs
- (b) kidney
- (c) liver
- (d) brain.

(OJEE)

17.2: Mechanism of Breathing

2016

- 8. Lungs do not collapse between breaths and some air always remains in the lungs which can never be expelled because
 - (a) there is a negative pressure in the lungs
 - (b) there is a negative intrapleural pressure pulling at the lung walls.
 - (c) there is a positive intrapleural pressure.
 - (d) pressure in the lungs is higher than the atmospheric pressure. (NEET Phase-II)

2015

- 9. Hiccups can be best described as
 - (a) forceful sudden expiration
 - (b) forceful contraction of intercostal muscles during deep breathing
 - (c) vibration of the soft palate during breathing while sleeping
 - (d) jerky incomplete inspiration.
- **10.** Which of the following is the most appropriate in normal circumstances?
 - (a) During inspiration, the intrapulmonary pressure is less than the atmospheric pressure.
 - (b) During expiration, the intrapulmonary pressure is less than the atmospheric pressure.
 - (c) During inspiration, the intrapulmonary pressure is more than the atmospheric pressure.
 - (d) During expiration, the intrapulmonary pressure is equal to the atmospheric pressure. (AMU)

2014

- To generate pressure gradients to facilitate expiration and inspiration, the human body uses the intercostal muscles and
 - (a) alveolar sacs
 - (b) bronchi
 - (c) primary, secondary and tertiary bronchioles
 - (d) diaphragm
 - (e) windpipe.

(Kerala PMT)

(AIIMS)

2012

- 12. In humans, which among these is not a step in respiration?
 - (a) Pulmonary ventilation
 - (b) Alveolar diffusion of O2 and CO2
 - (c) Transport of gases by blood
 - (d) Diffusion of O2 and CO2 between blood and
 - (e) Utilisation of CO2 by cells for catabolic reactions (Kerala PMT)

2011

- 13. Which one of the following is a possibility for most of us in regard to breathing, by making a conscious
 - (a) One can breathe out air totally without oxygen.
 - (b) One can breathe out air through Eustachian tube by closing both nose and mouth.
 - (c) One can consciously breathe in and breathe out by moving the diaphragm alone, without moving the ribs at all.
 - (d) The lungs can be made fully empty by forcefully breathing out all air from them. (AIPMT Mains)

2010

- 14. Pick the correct statement.
 - (a) The contraction of internal intercostal muscles lifts up the ribs and sternum.
 - (b) The RBCs transports oxygen only.
 - The thoracic cavity is anatomically an air tight chamber.
 - (d) Healthy man can inspire approximately 500 mL of air per minute.
 - (e) During expiration, the intrapulmonary pressure is slightly below the surrounding atmospheric pressure. (Kerala PMT)
- 15. Which of the following statements is correct?
 - (a) During inspiration external intercostal muscles and diaphragm contract.
 - (b) Cyanosis means collapse of alveoli.
 - (c) Eupnea is slow breathing.
 - (d) Coryza is caused by human corona virus.

(UP CPMT)

17.3: Respiratory Volumes and Capacities

2017

- 16. Lungs are made up of air-filled sacs, the alveoli. They do not collapse even after forceful expiration, because of
 - (a) inspiratory reserve volume
 - (b) tidal volume
 - (c) expiratory reserve volume
 - (d) residual volume

(NEET)

2015

- 17. Amount of air in the lungs that remains after deep
 - (a) dead space
- (b) residual volume
- (c) vital capacity
- (d) ventilation rate.
- (J&KCET) 18. The volume of air left in the lungs after forceful expiration and after normal expiration is respectively
 - (a) tidal volume and expiratory capacity
 - (b) residual volume and expiratory capacity
 - residual volume and functional residual capacity
 - vital capacity and functional residual capacity.

(JIPMER)

- 19. The volume of air that will remain in the lungs after a normal expiration is called
 - (a) vital capacity
 - (b) functional residual capacity
 - (c) residual volume
 - (d) total lung capacity
 - inspiratory capacity.

(Kerala PMT)

2014

- 20. Choose the wrong statement.
 - Solubility of CO₂ in blood is 20-25 times higher than that of O_2 .
 - The total volume of air accommodated in the (b) lungs at the end of a forced inspiration is called the 'vital capacity'.
 - (c) O2 can bind with haemoglobin in a reversible manner to form oxyhaemoglobin.
 - (d) Every 100 mL of deoxygenerated blood delivers approximately 4 mL of CO2 to the alveoli.
 - The diffusion membrane is made of three major layers namely the thin squamous epithelium of alveoli, the endothelium of alveolar capillaries and the basement substance in between them.

(Kerala PMT)

21. Match the items listed under column I with those given under column II. Choose the appropriate option from the given chai

nom the given choices.									
	Col	umr	I			Column II			
A.	Res	idua	l volun	ne (RV	V) p.	4000 mL - 4600 mL			
B.			ory Res		q.	1100 mL - 1200 mL			
	Volu	ıme	(IRV)	0110	4.	1100 IIIL - 1200 IIIL			
C.			pacity (VC		1000 T 1100 T			
		· cap	acity (VC)	r.	1000 mL - 1100 mL			
D.	Exp	irato	ry Res	erve	S.	3000 mL - 3500 mL			
	Volu	ime	(ERV)						
E.	Insp	irato	ry capa	acity	t.	2500 mL - 3000 mL			
	(IC)					2000 ML 9000 ME			
	A	B	C	D	E				
(a)	t	q	S	r	p				
(b)	q	r			P				
	4	1	S	t	p				
(c)	q	t	р	r	S				
(d)	r	t	p	q	S	(Karnataka CET)			
			P	4		(Mariataka CEI)			

Breathing and Little The volume of air that can be breathed in by maximum inspiration over and above the The volume inspiration over and above the normal 2011 **30.** Dead space air in man is inspiration is called (b) 150 mL (a) 500 mL expiratory reserved volume (J & K CET) (d) 1.5 L. (b) inspiratory reserved volume (c) 250 mL 31. Large volume of air a person can expire after a forceful vital capacity inspiration is called inspiratory capacity. (WB JEE) (c) (a) inspiratory reserve volume (d) (b) expiratory reserve volume 2013 (c) vital capacity 13. Tidal air in mammalian lungs is (OJEE) (d) tidal volume. air that normally goes in and out of lungs during 2010 (8) breathing total maximum air that can be drawn into lungs 32. Listed below are four respiratory capacities (i-iv) and air that is left in the lungs after normal expiration four jumbled respiratory volumes of a normal human air that can be expelled out from lungs forcibly adult. (c) Respiratory Respiratory after normal expiration. volumes capacities 14. The inspiratory reserve volume + tidal volume + 2500 mL Residual volume expiratory reserve volume is the same as (ii) Vital capacity 3500 mL (a) inspiratory capacity + expiratory reserve volume (iii) Inspiratory reserve volume 1200 mL total lung capacity - functional residual capacity (iv) Inspiratory capacity 4500 mL (c) inspiratory capacity + functional residual Which one of the following is the correct matching of two capacities and volumes? capacity (a) (ii) 2500 mL, inspiratory capacity + residual volume. (iii) 4500 mL (AMU) (b) (iii) 1200 mL, (iv) 2500 mL (c) (iv) 3500 mL, (i) 1200 mL 2012 (d) (i) 4500 mL, (ii) 3500 mL 25. 1200 mL volume of air that always remains in the (AIPMT Prelims) lungs even after forcible expiration is called 33. The volume of air inspired or expired during normal (a) tidal volume (b) residual volume respiration is called (c) vital volume (d) inspiratory volume. (a) tidal volume (AFMC) (b) inspiratory reserve volume 26. Vital capacity is (c) expiratory reserve volume (a) TV + IRV (b) TV + ERV(d) residual volume. (AFMC) (c) RV + ERV (d) TV + IRV + ERV. 34. Match the columns and select the correct option from (BHU) the codes given below. (A) TV + ERV(i) Expiratory 27. The volume of air which remains in the conducting capacity airways and is not available for gas exchange is called (B) RV + ERV + TV + IRVTotal lung (ii) (a) vital capacity capacity (b) functional residual capacity (C) ERV + RV(iii) Functional (c) forced expiratory volume residual capacity (d) anatomical dead space. (J & K CET) (a) A-(i), B-(ii), C-(iii) (b) A-(iii), B-(i), C-(ii) 28. After forceful inspiration, the amount of air that can (c) A-(iii), B-(ii), C-(i) (d) A-(ii), B-(iii), C-(i) be breathed out by maximum forced expiration is equal to 35. The volume of air that is normally inspired and (a) Inspiratory Reserve Volume (IRV) + Expiratory expired at every breath is called (a) residual volume Reserve Volume (ERV) + Tidal Volume (TV) + (b) inspiratory reserve volume Residual Volume (RV) (c) vital capacity (b) IRV + RV + ERV(d) tidal volume. (J & K CET) (c) IRV + TV + ERV36. In which of the following subjects the dead space is (d) TV + RV + ERV. (WB JEE) highest? 29. The volume of 'anatomical dead space' air is normally (a) Old man (b) Old woman (a) 230 mL (b) 210 mL (c) Young man (d) Young woman (c) 190 mL (d) 150 mL. (WB JEE) (WB JEE)

2009

- 37. The amount of volume of air that can be inspired/ expired normally is called
 - (a) tidal volume
- (b) vital capacity
- (c) residual volume
- (d) normal volume.

(AFMC)

17.4: Exchange of Gases

2016

- 38. The partial pressure of oxygen in the alveoli of the lungs is
 - (a) equal to that in the blood
 - (b) more than that in the blood
 - (c) less than that in the blood
 - (d) less than that of carbon dioxide. (NEET Phase-II)

2015

- 39. Partial pressures of oxygen and carbon dioxide in healthy human lung alveoli are, respectively, nearest
 - (a) 104 and 40 mm Hg
- (b) 90 and 20 mm Hg
- (c) 40 and 45 mm Hg
- (d) 159 and 0.3 mm Hg.

2014

- 40. The process of exchange of O2 from the atmosphere with CO2 produced by the cells is called
 - (a) biological respiration
 - (b) photosynthesis
 - (c) biological assimilation
 - (d) gaseous exchange.

(J & K CET)

(AMU)

- 41. What is the pO₂ and pCO₂ in the systemic arteries?
 - (a) pO₂ 40 mm Hg; pCO₂ 45 mm Hg
 - (b) pO₂ 95 mm Hg; pCO₂ 104 mm Hg
 - (c) pO₂ 95 mm Hg; pCO₂ 40 mm Hg
 - (d) pO₂ 45 mm Hg; pCO₂ 40 mm Hg
 - (e) pO₂ 104 mm Hg; pCO₂ 159 mm Hg

(Kerala PMT)

2013

42. The figure given below shows a small part of human lung where exchange of gases takes place. Select the option which represents labelled part (A, B, C or D) correctly identified along with its function.



- (a) C: arterial capillary passes oxygen to tissues
- (b) A: alveolar cavity main site of exchange of

- (c) D: capillary wan exchange of O₂ and CO₂ and CO
- 43. Between breaths the intrapleural pressure is approximately mmHg less than atmospheric pressure. mately ___ mmHg less than atmospheric pressure is appropriate to the pressure is appropriate
- 44. The factor which does not affect the rate of alverted to the rate of alver

 - thickness of the membranes
 - (c) pressure gradient
 - concentration gradient (d)
 - reactivity of the gases.

(Kerala PM)

(OJEE)

2010

- 45. The partial pressure of oxygen in the alveolar airis
- (b) 95 mm Hg
- (c) 104 mm Hg (e) 125 mm Hg.
- (d) 110 mm Hg
- 46. The exchange of gases between blood capillaries and
 - (a) simple diffusion
- (b) active transport
- (c) osmosis
- (d) facilitated diffusion

17.5: Transport of Gases

2016

- 47. Reduction in pH of blood will
 - decrease the affinity of haemoglobin with oxygen (b)
 - release bicarbonate ions by the liver
 - reduce the rate of heart beat (c)
 - reduce the blood supply to the brain.

(NEET Phase-I)

2015

- 48. Which of the following sets of conditions promotes the dissociation of oxygen from haemoglobin?
 - (a) Low pO₂, high pCO₂, high H
 - (b) High pO₂, high pCO₂, low H
 - (c) High pO₂, low pCO₂, low H
 - (d) Low pO₂, low pCO₂, low H

(AMU)

2014

- 49. Approximately seventy percent of carbon dioxide absorbed by the blood will be transported to the lung
 - (a) as bicarbonate ions
 - in the form of dissolved gas molecules
 - (c) by binding to R.B.C
 - (d) as carbamino haemoglobin.

(AIPMI)

- 50. When percentage saturation of haemoglobin with 0; is plotted against pO₂, the curve obtained is (a) J shaped
 - (c) sigmoid
- (b) hyperbola (d) U shaped
- (e) urn shaped.

Breatming Blood carries CO₂ mainly in which form? (a) HbCO₂ Carbonic acid NaHCO₃ (b) HbCO₂ and carbon monoxide During the transportation of gases, to maintain the jonic balance, chloride ions shift from (JIPMER) jonic balance, chloride ions shift from (a) RBCs to plasma
(b) plasma to RBCs
(d) blasma lungs to blood (Karnataka CET) 2012 d. Increase in body temperature makes oxygen haemoglobin dissociation curve (a) shift to left (b) shift to right (c) hyperbolic (d) parabolic. (BHU) 4. The amount of O₂ transported in a dissolved state through plasma is approximately (b) 20-25% (c) 7% (d) 49% (a) 97% (Kerala PMT) (e) 3%. The enzyme essential for the transport of CO2 as bicarbonate in blood is (a) carboxypeptidase (b) succinic dehydrogenase (c) carbonic anhydrase (d) thrombokinase (Kerala PMT) lactase. (e) 56. Choose the right sequential phenomena among the following during the delivery of O2 from blood to tissue. P: Absorption of CO₂ by the blood. Q: Reaction of absorbed CO2 with H2O to form H2CO3 within RBC and its conversion into H and HCO3 ions. R: Reaction of absorbed CO₂ with H₂O in plasma to form H₂CO₃ and its conversion into H⁺ and HCO3 ions. S: Combination of H⁺ with heme portion of HbO₂ to release O₂. T: Combination of HCO₃ with heme portion HbO₂ to form reduced hemoglobin and release of O2. (a) P, Q, T (b) P, R, S (WB JEE) (c) P, Q, S (d) P, R, T 57. Amount of oxygen supplied by 100 mL arterial blood while passing through the tissues is (a) 0.4-0.6 mL (b) 4-6 mL (d) 19-20 mL. (WB JEE) (c) 14-15 mL 2011 58. Bulk of carbon dioxide (CO₂) released from body tissues into the blood is present as (a) bicarbonate in blood plasma and RBCs (b) free CO₂ in blood plasma (c) 70% carbamino-haemoglobin and 30% as

bicarbonate

carbamino-haemoglobin in RBCs.

(AIPMT Mains)

59. A large proportion of oxygen remains unused in the human blood even after its uptake by the body tissues. (a) acts as a reserve during muscular exercise (b) raises the pCO₂ of blood to 75 mm of Hg (c) is enough to keep oxyhaemoglobin saturation at (d) helps in releasing more O₂ to the epithelial (AIPMT Prelims) 60. Which one of the following can bind several hundred times more strongly to the haemoglobin than oxygen? (b) CO₂ (a) CO (d) H₂CO₃ (c) SO₂ 61. Amount of CO₂ in expired air is about (a) 0.04% (b) 0.03% (d) 21%. (c) 4.5% 2010 62. What is true about RBCs in humans? (b) They transport 99.5 per cent of O₂. dissolved state in blood plasma.

- (a) They carry about 20-25 per cent of CO₂.
- (c) They transport about 80 per cent oxygen only and the rest 20 per cent of it is transported in
- (AIPMT Prelims) (d) They do not carry CO₂ at all.
- 63. CO₂ is transported in blood mostly by means of
 - (a) plasma
 - (b) bicarbonate ion
 - (c) carbamino haemoglobin
 - (AFMC) (d) none of these.
- 64. In the resting person, saturation of haemoglobin as blood leaves the tissue capillaries is approximately
 - (a) 75%
- (b) 40%
- (c) 3%
- (d) 46%.

(AMU)

(AMU)

(J & K CET)

- 65. According to Boyle's law, the product of pressure and volume is a constant. Hence,
 - (a) if volume of lungs is increased, the pressure decreases proportionately
 - (b) if volume of lungs is increased, the pressure also increases proportionately
 - (c) if volume of lungs is increased, the pressure decreases disproportionately
 - (d) if volume of lungs is increased, the pressure (Karnataka CET) remains the same.
- About 70% of CO₂ in blood is transported in the form
 - (a) dissolved CO₂
 - bicarbonates (b)
 - carbaminohaemoglobin (c) (d) carboxyhaemoglobin.

(OJEE)

17.6: Regulation of Respiration

2011

67. Pneumotaxic centre which can moderate the functions of the respiratory rhythm centre is present at

(a) pons region of brain (b) thalamus

(c) spinal cord

(d) right cerebral hemisphere

(e) left cerebral hemisphere.

(Kerala PMT)

2010

68. Chemosensitive area of respiratory centre in medulla is affected by

(a) less CO₂ and H⁺ ions

(b) less O₂ and H⁺ ions

(c) excess CO₂ and H⁺ ions (d) excess O₂ and H⁺ ions.

(AIIMS)

69. The respiratory rhythm centre is present in the

(a) cerebrum

(b) cerebellum

(c) hypothalamus

(d) corpora quadrigemina

(e) medulla oblongata.

(Kerala PMT)

17.7: Disorders of Respiratory System

2016

70. Name the chronic respiratory disorder caused mainly by cigarette smoking.

(a) Respiratory acidosis (b) Respiratory alkalosis

(c) Emphysema (d) Asthma

(NEET Phase-I)

71. Asthma may be attributed to

(a) inflammation of the trachea

(b) accumulation of fluid in the lungs

bacterial infection of the lungs (c)

allergic reaction of the mast cells in the lungs.

2015

72. Name the pulmonary disease in which alveolar surface area involved in gas exchange is drastically reduced

(NEET Phase-I)

due to damage in the alveolar walls. (a) Pneumonia

(b) Asthma

(c) Pleurisy

(d) Emphysema (AIPMT)

2012

73. Which one of the following is the correct statement for respiration in humans?

(a) Cigarette smoking may lead to inflammation of bronchi.

(b) Neural signals from pneumotoxic centre in pons region of brain can increase the duration of inspiration.

(c) Workers in grinding and stone-breaking industries may suffer, from lung fibrosis.

About 90% of carbon dioxide (CO₂) is carried by haemoglobin as carbaminohaemoglobin.

(AIPMT Prelims)

74. Following are few characters of a disorder in human body.

(A) Inflammation of the mucous membrane of nasal passage

(B) Watery secretions by mucous glands

(C) Continuous sneezing

(D) Eye watering

(E) Rise in body temperature

Identify the disorder from the choices given below

(a) Bronchial asthma

(b) Rhinitis

(c) Bronchial carcinoma (d) Emphysema

(Karnataka CET)

75. Hypoxia corresponds to

(a) any change in the relative rates of development of different cell lines in body

(b) hardening and loss of elasticity of arteries

(c) deficiency of oxygen in body tissues

(d) sudden interruption of blood flow to a portion of brain due to blockage of cerebral blood vessel.

(OJEE)

2011

76. Emphysema is a

(a) cardiovascular disease

(b) pulmonary disease

(c) neural disease

(d) renal disease.

(J&KCET)

77. When the blood contains a high percentage of CO2 and a very low percentage of O2 the breathing stops and the person becomes unconscious. This condition is known

suffocation (a)

(b) asphyxia

emphysema

(d) eupnea.

(Karnataka CET)

Asthma is characterised by

(a) spasm in bronchial muscle

(b) alveolar wall degradation (c) pain in lungs

(d) damage in diaphragm.

(OJEE)

79. Cigarette smoking causes

(a) lung cancer

(b) baldness

(c) colour blindness

(d) none of these. (OJEE)

80. When the oxygen supply to the tissue is inadequate, the condition is

(a) dyspnea

(b) hypoxia

(c) asphyxia

(d) apnea.

(WB JEE)

2009

81. Lack of pulmonary surfactant produces

(a) asthma

(b) emphysema

(c) cystic fibrosis

(d) respiratory distress syndrome.

(AMU)