Episode no.28

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Topic: Human Physiology Part-01

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- * Plasma protein that helps in osmotic balance is:
 - a) Albumins
- b) Globulins.
- c) Fibrinogen
- d) Histamine

Ans- a

- * Which of the following pairs is incorrect?
 - a) Protonephridia → Amphioxus.
 - b) Nephridia → Earthworm.
 - c) Malpighian tubules → Cockroach.
 - d) Antennal Glands → Scorpion.

Ans- d

- * Pick the incorrect statement for lacteal:
 - a) The lymphatic vessels present in the villus with blind end.
 - b) Help in absorption of digested fats.
 - c) Help in transport of digested fats along with blood.
 - d) Produce antibodies.

Ans- d

- * If concentration of oxygen is 21% and carbon dioxide is 0.04%. What will be their partial pressures?
 - a) 159.6 and 0.3 mm Hg
 - b) 15.96 and 3 mm Hg
 - c) 105 and 40 mm Hg
 - d) 45 and 40 mm Hg

Ans-a

- * Which of the following statement is incorrect?
 - i. Kidneys are the organs concerned with urea formation.
 - ii. Human kidneys are situated between last thoracic and third lumbar vertebra in the abdominal cavity.
 - iii. The left kidney of humans is slightly placed lower to the right kidney.
 - iv. Kidneys produce urine nearly four times concentrated than the glomerular filtrate.
 - a) i and ii

b) i, ii and iii

c) i and iii

d) iii and iv

Ans- c

- * The correct arrangement of four layers lining the wall of alimentary canal from oesophagus to rectum from outside to lumen is:
 - a) Serosa → Mucosa → Sub-mucosa → Muscularis.
 - b) Serosa → Sub-Mucosa → Mucosa → Muscularis.
 - c) Serosa → Muscularis → Sub-mucosa → Mucosa.
 - d) Mucosa \rightarrow Sub-Mucosa \rightarrow Muscularis \rightarrow Serosa.

Ans- c

*	In which of the following form, most carbon dioxide is transported in blood?				
	a) Carbonic acid.		b) Bicarbonates.		
	c) carb-amino haemogl	obin.	d) Free carbon dioxide.		
	Ans- b				
*	Which of the following teeth are not represented in milk dentition? a) Incisors b) Canines				
	c) Premolars	d) Molars			
	Ans- c	aj Wiolais			
*	The connective tissue devoid of fibres is:				
	a) Loose connective tissue				
	b) Dense connective tissue.				
	c) Cartilage and bone ti	ssue.			
	d) Blood and Lymph tiss	sue.			
	Ans- d				
*	The only organ in the human body where capillaries join and continue as artery is:				
	a) Liver	b) Lungs	c) Spleen d) Kid	-	
	Ans- d	-7 8-	-, -, -, -, -, -, -, -, -, -, -, -, -, -,		
*	The cartilaginous flap that prevents the entry of food into the glottis during swallowing is				
	called:				
	a) Frenulum.	b) Uvula.			
	c) Lips.	d) Epiglottis.			
	Ans- d				
*	Least abundant leucocytes are:				
	a) Neutrophils.	b) Basophils.			
	c) Eosinophil's	d) Monocytes.			
	Ans- b				
*	Which group of aquatic forms is known to excrete the nitrogenous wastes in the form of				
	urea?		-		
	(1) Aquatic insects.		(2) Aquatic Amphibians.		
	(3) Bony fishes.		(4) Marine fishes.		
	Ans- d				
*	Which of the following	Which of the following pair of digestive glands are not the associated glands?			
	a) Liver and Pancreas.				
	b) Parotid and Sub-mai	ndibular glands.			
	c) Sub-lingual and Sub-	-maxillary glands.			
	d) Crypts of Lieberkuhr	n and Gastric glands.			
	Ans- d				
*	If the average respiratory rate in an adult healthy individual is 15, what will be the volume of				
	air inspired per minute?				
	a) 7.5 lts	b) 3 lts	c) 4.5 lts	d) 1.5 lts	
	Ans- a	,	,	, - 1-1-2	
*	A south a short of the state of	a la alcada e e e e e e	annah ka meneralah 199	atam of	
т			supply to myocardial tissue is a		
	a) Heart failure Ans- d	b) Cardiac arrest	c) Heart burn	d) Angina	

- * The process of expelling of urine from the bladder through the urethra is called
 a) Dysuria b) Nocturia c) Micturition d) Uremia
 Ans- c
- * Chilomicrons are:
 - a) Droplets of fatty acids and glycerol that move into the intestinal mucosa.
 - b) Non-digestive enzyme secreted by intestinal mucosa.
 - c) Hormones that inhibit the release of gastric juice.
 - d) Small protein coated fat globules which are transported into lacteals in the villi.

Ans- d

- * Trachea (wind pipe) divides distally into right and left primary bronchi at the level of
 - a) 3rd Thoracic Vertebra
 - b) 7th Cervical Vertebra
 - c) 5th Thoracic Vertebra
 - d) 7th Thoracic vertebra

Ans- c

- * In cardiac output of 5250 ml per minute, with heart rate 75, the stroke volume is:
 - a) 55 ml b) 60 ml c) 70 ml d) 80 ml

Ans- c

- * Renin secreted by cells of afferent arteriole of Juxta Glomerular Apparatus (JGA) stimulates adrenal cortex to secrete aldosterone that promotes:
 - a) resorption of sodium and water.
 - b) resorption of sodium and potassium.
 - c) Excretion of sodium and potassium.
 - d) Excretion of sodium and resorption of potassium.

Ans- a

Read the statement A and B

Statement A: The mucosal cell of intestinal villi are brush border cells.

Statement B: Secretions of brush border cells and goblet cells is Succus entricus.

Choose the correct option:

- a) Both statements A and B are correct .
- b) Both statements A and B are incorrect.
- c) Statement A is correct and B is incorrect.
- d) Statement A is incorrect and B is correct.

Ans- a

- * The pO2 is almost same in:
 - a) Atmospheric air and Body tissue.
 - b) Alveolar air and Body tissue.
 - c) Deoxygenated blood and Body tissue.
 - d) Oxygenated blood and Body tissue.

Ans- c

- * Which of the following is least likely to happen when there is excessive loss of fluid from the body?
 - a) Activation of Osmoreceptors in the body.
 - b) Release of Vasopressin from Neurohypophysis.
 - c) Reabsorption of Water from Renal tubules.
 - d) Release of Atrial Natriuretic Factor.

Ans-d

- * Column of Bertini is:
 - a) the tubule formed by joining of several collecting ducts in the kidney.
 - b) the minute vessel from peritubular capillaries that run parallel to the Henle's loop forming 'U' shape.
 - c) a network of blood capillaries and Bowman's capsule
 - d) the cortex that extends between the medullary pyramids.

Ans- d

- * Choose the incorrect statement.
 - a) The duct of gall bladder that joins the hepatic duct is called cystic duct.
 - b) The number of incisors found in permanent set of teeth in human are eight.
 - c) Salivary amylase is active at slightly acidic pH.
 - d) Renin is found in gastric juice of infant stomach which helps in the digestion of milk proteins.

Ans-d