

ARJUNA NEET Practice Test -03



136. The figure given below shows a small part of human lung where exchange of gases takes place. In which one of the options given below, the one part, A, B, C or D is correctly identified along with its function



(a) C: arterial capillary-passes oxygen to tissues

(a) A: alveolar cavity-main site of exchange of respiratory gases

(b) D: Capillary wall-exchange of O2 and CO2 takes place here

(c) B: red blood cell-transport of CO2 mainly

137. How much oxygen blood supplies to tissues in one circulation in normal condition



Blow

(a) 75%

(b) 4%

(c) 25%

(d) 20%



138. Body tissues obtain O2 from oxyhaemoglobin because of its dissociation in tissues caused by



Low oxygen concentration and high CO2 concentration



- (b) Low CO2 concentration
- (c) Low H+ concentration
- (d)High CO2 concentration

139. Partial pressure of carbon dioxide in Alveoli, atmospheric air and tissues will be:



- (a)(0.3, 40, 45) mm Hg
- (b) (0.3, 104, 28) mm Hg
- (c) (40, 0,3, 45) mm Hg
- (d) (104, 159, 40) mm Hg

140. Respiratory centre of brain is stimulated by



(a) Carbon dioxide content in venous blood

(b) Carbon dioxide content in arterial blood

(c)Oxygen content in venous blood

(d)Oxygen content in arterial blood



141. Crypts of Leiberkuhn are found in between the villi. They secrete :



(A)Glucagon

(B) Succus entericus

(C) Insulin

(D) None

Intestinat juice

Journal Successions

A successions

Examples Successions

142. Monophyodont teeth are comes once in the lifetime



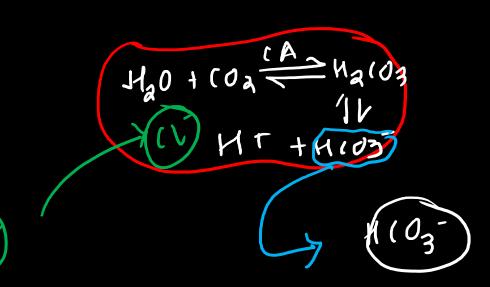
- (A) Incisors and Canines
- Canines and Premolars
- Premolar and molar
- Canines and Molars

Last Molar, Both Premolal

143. Exchange of bicarbonates and chloride ions between RBC and plasma is called

PW

- (A) Chlorideshift
- (B) Bohr'seffect
- (C) Haldane'seffect
- (D) Intra cellular respiration

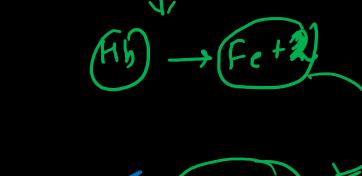


144. "Methemoglobin" refers to





- (A) A colourless respiratory pigment
- (B) Oxidised haemoglobin
- (C) Oxygenated haemoglobin
- (D) Deoxygenated haemoglobin



Methamaglobin

145. Select the incorrect statement



- (a) alimentary canal begins with an anterior cavity called buccal cavity
- (b) tooth is embedded in a socket of mandible bone only
- (c) human shows strict diphyodont type of dentition
- (d) oesophagus and the trachea open into the pharynx
- (A) a, b, c and d
- (C) a, c and d
- (P) a, b and c (D) a, b and d





146. The oesophagus is a thin, long tube which extends ____ passing through the neck.



- (A) Anteriorly
- (B) posteriorly
- (C) horizontal
- (D) obliquely

147. In human tis a small blind sac, which hosts some symbiotic micro-



(A) Caecum

- (B) Colon
- (C) Rumen
- (D) All of these

148. The primary muscle of inspiration is

PW

- (A) Diaphragm
- (B) Intercostal muscle
- (C) Abdominal muscle
- (D) Oblique muscle

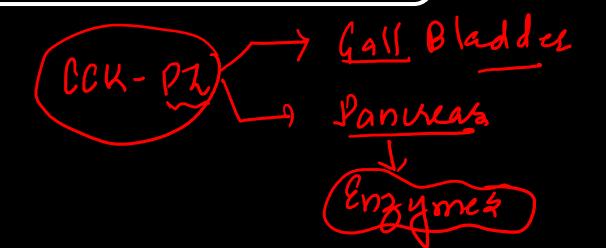




149. Cholecystokinin (CCK) helps in secretion of



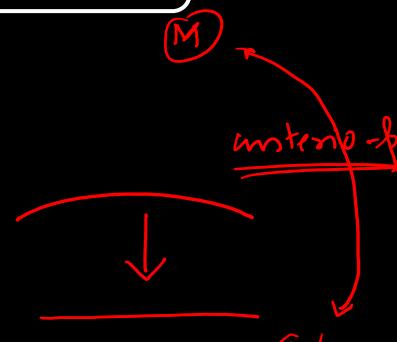
- (A) Alkaline buffer
- (P) Pancreatic enzymes
- (C) Gastric secretion
- (D) Water and bicarbonate ions



150. By the contraction in diaphragm volume of thoracic chamber increases in the



- A) Dorso-ventral axis
- Antero-posterior axis
- (C) Dorso-posterior axis
- (D) Antero-ventral axis



151. In stomach after physical and chemical digestion food is called



(A) Chyme

- (B) Chyle
- (C) Amino acid

(D) Bolus

h

152 Brunner's gland are found in which of the following layers:



- (A) Submucosa of stomach
- (B) Mucosa of ileum
- Submucosa of duodenum
- (D) Mucosa of oesophagus

153. Glisson's capsule is associated with



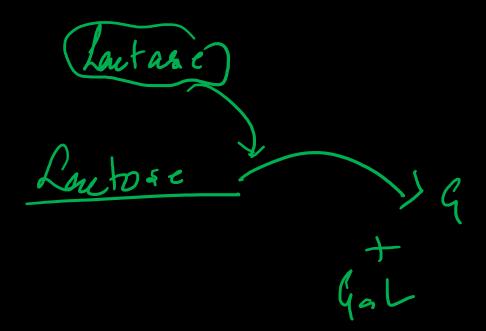
- (A) liver
- (B) pancreas
- (C) lungs
- (D) kidney



154 Lactose composed of



- Glucose + galactose
- (B) Glucose + fructose
- (C) Glucose + glucose
- (D) Glucose + mannose



155. Pepsinogen is secreted by



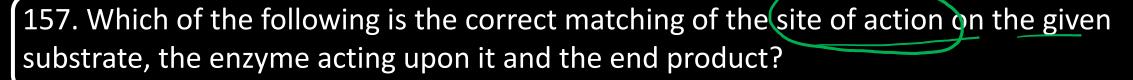
(B) oxyntic cells

- (C) mast cells
- (D) parietal cell 🧸

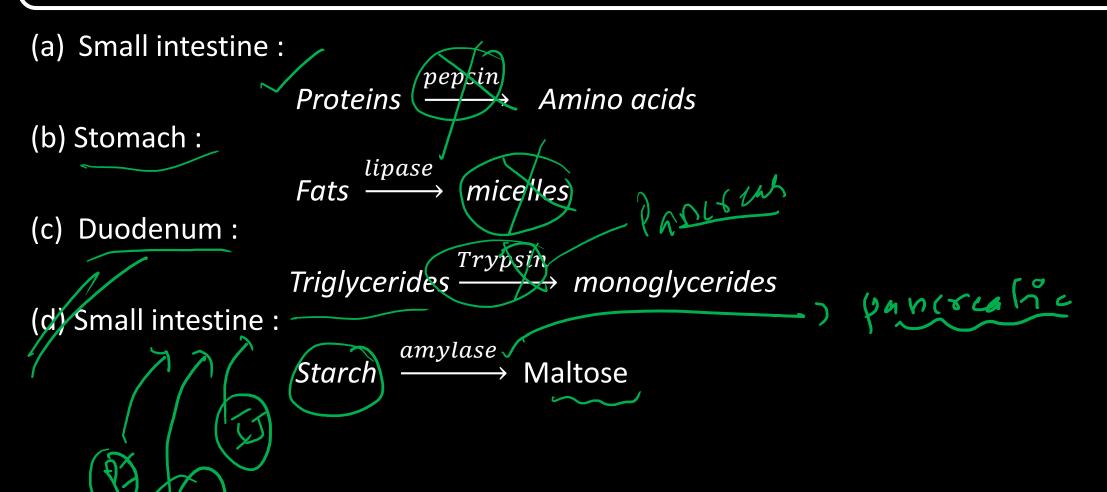
156. Largest gland of body



- (A) Pancreas
- (B) Duodenum
- Liver
- (D) Thyroid





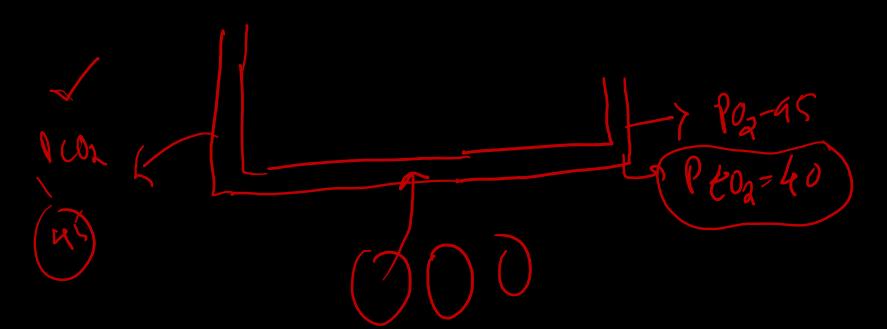


158. Which of the following statement about the partial pressure of CO₂ is true?



- (a) It is higher in alveoli than in pulmonary artery
- (b) It is higher in systemic arteries than systemic vein.
- It is higher systemic veins than in systemic arteries
- (d) It is higher in the pulmonary veins than in pulmonary arteries





159. First enzyme involved in complex carbohydrate metabolism is



(a) Salivary amylase

(pryalin

(b) nuclease

(c) Rennin

(d) lingual lipase

160. When the percentage saturation of haemoglobin with O_2 is plotted against the PO_2 , we get



(a) J-shaped curve

(b) L-shaped curve

(c) 5-shaped curve/sigmoid curve

(d) Rectangular graph

161. Each molecule of haemoglobin when fully saturated carries how many molecules of

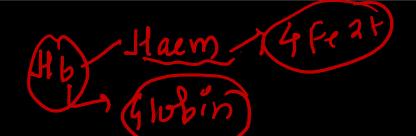


(a) 1

(e) 4

(b) 2

(d) 20



162. Which of the following statements about the mechanism of ventilation/breathing is false?

PW

- (a) As the diaphragm relaxes, air is expelled from the respiratory system
- (b) During respiration the lungs act as suction pump
- (c) Inspiration is a passive and expiration is an active process
- (d) For quite breathing external intercoastal muscles and diaphragm play an important role

163. What will be the PO₂ and PCO₂ in the atmospheric air



- (a)PO₂ lesser, PCO₂ lesser
- (c) PO₂ higher, PCO₂ higher

- (b) PO₂ higher, PCO₂ lesser
- (d) None of the above

164. Additional muscles for forceful breathing are



- (a) Diaphragm
- (b) Abdominal muscles and internal intercoastal muscles
- (c) External intercoastal muscle
- (d) Both (A) & (C)

165. In comparison to solubility of O₂ in blood the solubility of CO₂ is



- (a) 25 times lesser
- (c) Slightly greater

- (b) Slightly higher
- 20-25 times greater

166. Gas exchange in animals always involves



- (a) Anaerobic cellular respiration
- (c) Active transport of gases

- Diffusion across membranes
- (d) None

167. The barrier between the air in alveolus and blood in pulmonary capillary consists of 3 layers and its total thickness



(a) 1 mm

(b) More than 1 mm

Much less than 1 mm

(d) 2 mm

168. Trachea divides into right and left primary bronchi at _____th thoracic vertebra.



(a) 4

(c) 6

10/5

(d) 9

169. Respiratory or exchange part of the respiratory system consists of



- (a) The parts starting with external nostrils upto terminal bronchioles
- Alveoli and their ducts
- (c) All bronchi and terminal bronchioles
- (d) All bronchioles

170. Binding of O₂ with haemoglobin is primarily related to

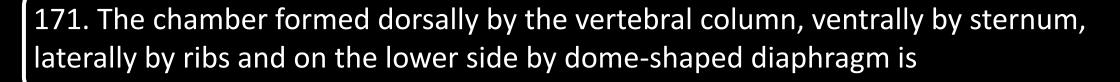


(2) PO₂

(c) H⁺ conc.



- (b) PCO₂
- (d) None





(a) Abdominal cavity

(c) Pelvic cavity

(b) Inoracic cavity

(d) Cranial cavity

172. The process of exhalation/expiration is begun mainly due to



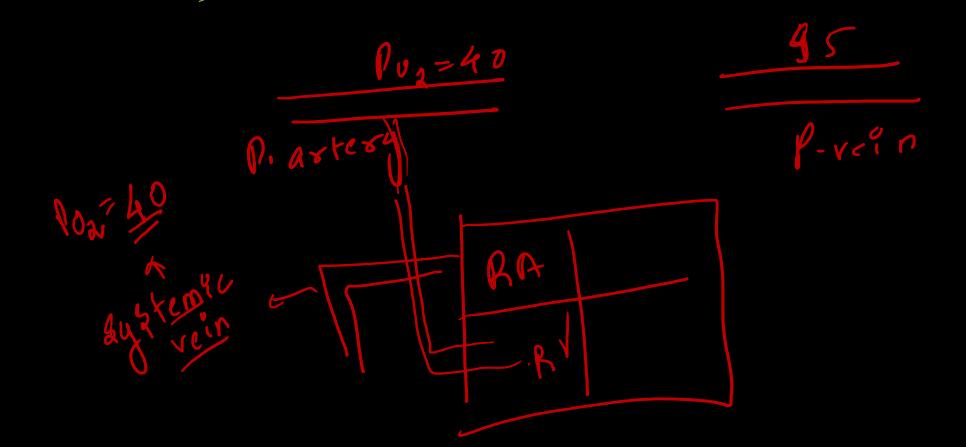
- (a) The contraction of intercoastel muscles
- (c) The relaxation of muscles

- (b) The contraction of the diaphragm
- (d) Low pressure in thoracic cavity

173. Which of the following would have the same O2 content?



- (a) Blood entering in lungs blood leaving the lungs
- Blood entering the right side of the heart-blood leaving the right side of the heart
- (c) Blood entering the right side of the heart blood leaving the left side of the heart
- (d) Blood entering the tissue capillaries blood leaving the tissue capillaries



174. The enzyme essential for the transport of CO₂ as bicarbonate in blood is:



(a)Carboxypeptidase (c)Carbonic anhydrase (b) Succinic dehydrogenase

(d) Thrombokinase

Mot Coa

Haws CA H+ + KW3

175. Exchange of gases between the blood and the tissue of the body is called:



(a) Internal respiration

(b) Cellular respiration

(c) External respiration

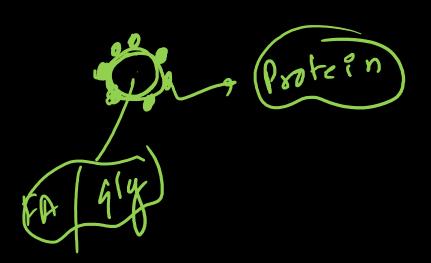
(d) None of these

176. Chylomicrons are-



(a)Undigested proteins

- (b) Undigested carbohydrates
- (c) Fat droplets coated with glycerol and Protein
- (d) Fat droplets coated with phospholipids



177. Pylorus is situated at the junction of

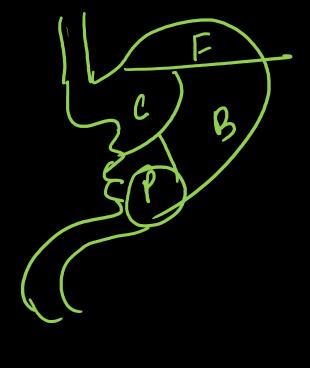


(a) Oesophagus and stomach

(c) Duodenum and ileum

Stomach and duodenum

(d) Ileum and rectum



178. Surgical removal of gall bladder in human beings would lead to



- (a) Impairment of the digestion of fat
- (c) Jaundice

- (b) Increased acidity in the intestine
- (d) None of the above

179. People living at sea level have around 5million RBC per cubic millimeter of blood whereas those living at an altitude of 5400 metres have around 8 million RBC per cubic millimeter of blood. This is because at high altitude:



- (a) people get pollution free air to breathe in and more oxygen is available
- atmospheric O_2 level is less and hence more RBCs are needed to absorb the required amount of O_2 to survive
- (c) there is more UV radiation which enhances RBC production
- (d) people eat more nutritive food, therefore more RBCs are formed

180. Digestion is the breaking down of large food molecules into smaller ones. The main purpose of this is to –



(a) Make the food soluble

(b) Enable the digestive enzymes to be used up

Provide many different types of molecules for absorption

(d) Make the passage of food along the gut easier





