



GPAT 2025

PHASE-II

NON STOP GPAT MANIA 2.0

BY TANU MAM

Live Class

Time
08:00
PM

Lecture
29 HUMAN ANATOMY & PHYSIOLOGY

TOPIC

BLOOD AND DIGESTIVE SYSTEM



VIDEO DEKHNE KE LIYE BANNER PAR CLICK KARE



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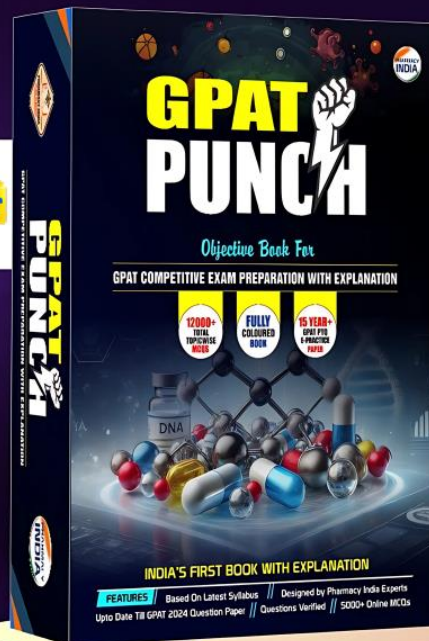
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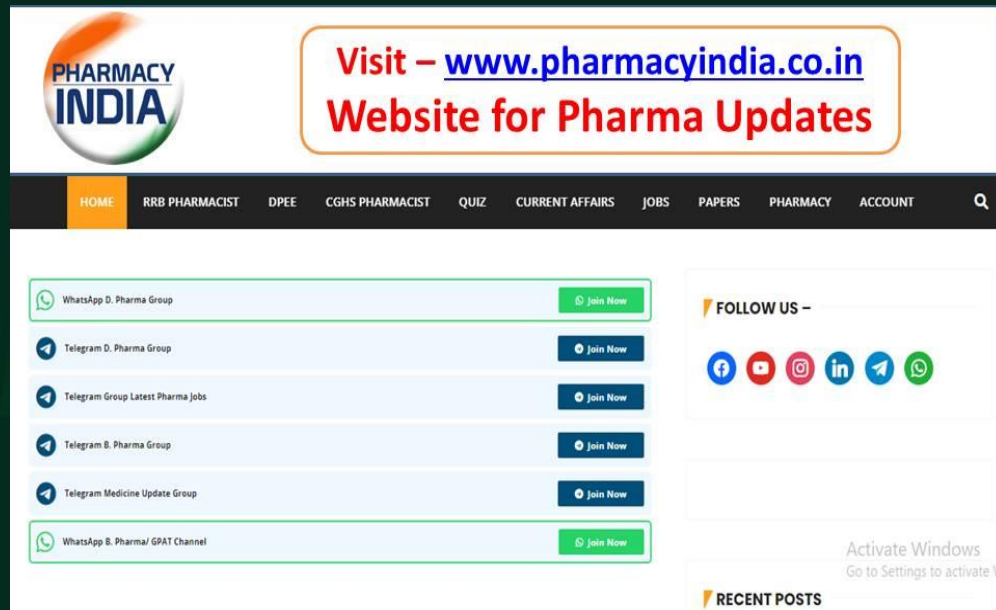
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1.

What is the most abundant plasma protein in human blood?

- A. Globulin
- B. Fibrinogen
- C. Albumin
- D. Prothrombin



1.

What is the most abundant plasma protein in human blood?

- A. Globulin
- B. Fibrinogen
- C. Albumin
- D. Prothrombin



2.

Which component of blood contributes most significantly to its viscosity?

- A. White blood cells
- B. Platelets
- C. Plasma
- D. Red blood cells



2.

Which component of blood contributes most significantly to its viscosity?

- A. White blood cells
- B. Platelets
- C. Plasma
- D. Red blood cells**



3.

What is the lifespan of platelets in the bloodstream?

- A. 1-3 days
- B. 5-9 days
- C. 10-14 days
- D. 15-20 days



3.

What is the lifespan of platelets in the bloodstream?

- A. 1-3 days
- B. 5-9 days
- C. 10-14 days
- D. 15-20 days



4.

Which white blood cell type is the first responder to microbial infections?

- A. Eosinophils
- B. Neutrophils
- C. Basophils
- D. Monocytes



4.

Which white blood cell type is the first responder to microbial infections?

- A. Eosinophils
- B. Neutrophils
- C. Basophils
- D. Monocytes



5.

What is the average diameter of a red blood cell in humans?

- A. 5 μm
- B. 7.5 μm
- C. 10 μm
- D. 12 μm



5.

What is the average diameter of a red blood cell in humans?

- A. 5 μm
- B. 7.5 μm
- C. 10 μm
- D. 12 μm



6.

What is the plasma concentration of fibrinogen in normal blood?

- A. 100-200 mg/dL
- B. 200-400 mg/dL
- C. 400-600 mg/dL
- D. 600-800 mg/dL



6.

What is the plasma concentration of fibrinogen in normal blood?

- A. 100-200 mg/dL
- B. 200-400 mg/dL
- C. 400-600 mg/dL
- D. 600-800 mg/dL



7.

Which ion plays a crucial role in blood clotting?

- A. Sodium
- B. Calcium
- C. Potassium
- D. Magnesium



7.

Which ion plays a crucial role in blood clotting?

- A. Sodium
- B. Calcium
- C. Potassium
- D. Magnesium



8. What is the main function of basophils?

- A. Phagocytosis
- B. Antibody production
- C. Release of histamine during allergic reactions
- D. Oxygen transport



8. What is the main function of basophils?

- A. Phagocytosis
- B. Antibody production
- C. Release of histamine during allergic reactions
- D. Oxygen transport



9.

What percentage of total white blood cells do lymphocytes constitute?

- A. 10-20%
- B. 20-40%
- C. 50-70%
- D. 1-5%



9.

What percentage of total white blood cells do lymphocytes constitute?

- A. 10-20%
- B. 20-40%
- C. 50-70%
- D. 1-5%



10. Which is the largest white blood cell?

- A. Monocyte
- B. Neutrophil
- C. Basophil
- D. Eosinophil



10. Which is the largest white blood cell?

- A. Monocyte
- B. Neutrophil
- C. Basophil
- D. Eosinophil



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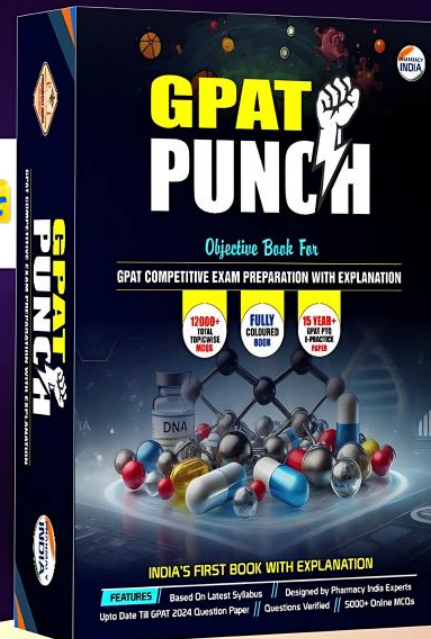
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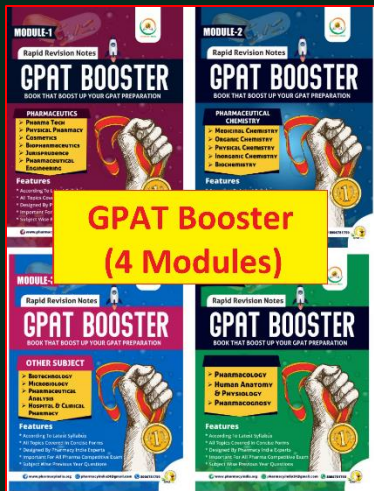
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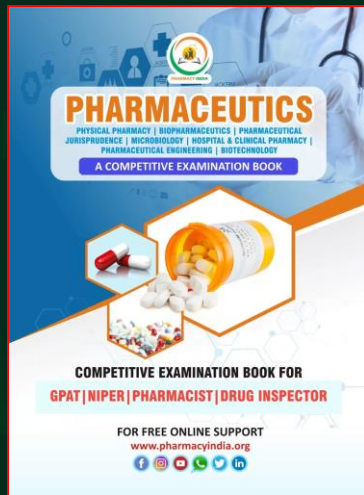
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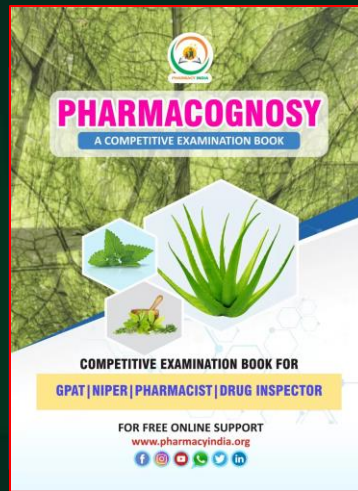
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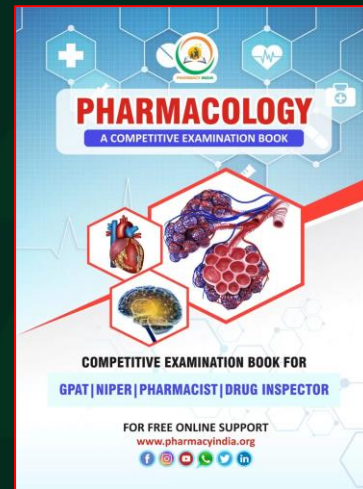
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11. Which protein in plasma is involved in iron transport?

- A. Albumin
- B. Globulin
- C. Transferrin
- D. Fibrinogen



11. Which protein in plasma is involved in iron transport?

- A. Albumin
- B. Globulin
- C. Transferrin
- D. Fibrinogen



12.

What type of hemoglobin is predominant in fetal blood?

- A. HbA
- B. HbF
- C. HbA₂
- D. HbS



12.

What type of hemoglobin is predominant in fetal blood?

- A. HbA
- B. HbF
- C. HbA₂
- D. HbS



13. Where are most plasma proteins synthesized?

- A. Spleen
- B. Bone marrow
- C. Liver
- D. Thymus



13. Where are most plasma proteins synthesized?

- A. Spleen
- B. Bone marrow
- C. Liver
- D. Thymus



14. Which anticoagulant is naturally present in blood plasma?

- A. Warfarin
- B. Heparin
- C. Aspirin
- D. EDTA



14. Which anticoagulant is naturally present in blood plasma?

- A. Warfarin
- B. Heparin
- C. Aspirin
- D. EDTA



15. What is the function of eosinophils in blood?

- A. Fight bacterial infections
- B. Combat parasitic infections
- C. Facilitate clotting
- D. Release antibodies



15. What is the function of eosinophils in blood?

- A. Fight bacterial infections
- B. Combat parasitic infections
- C. Facilitate clotting
- D. Release antibodies



16.

What is the role of carbonic anhydrase in red blood cells?

- A. Oxygen transport
- B. CO₂ transport as bicarbonate ions
- C. ATP production
- D. Immune response



16.

What is the role of carbonic anhydrase in red blood cells?

- A. Oxygen transport
- B. CO₂ transport as bicarbonate ions
- C. ATP production
- D. Immune response



17.

What is the average hemoglobin concentration in adult males?

- A. 10-14 g/dL
- B. 12-16 g/dL
- C. 13-18 g/dL
- D. 15-20 g/dL



17.

What is the average hemoglobin concentration in adult males?

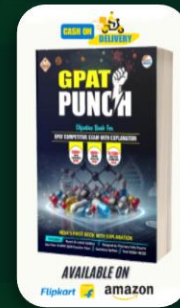
- A. 10-14 g/dL
- B. 12-16 g/dL
- C. 13-18 g/dL
- D. 15-20 g/dL



18.

Which protein helps in maintaining the osmotic balance of blood?

- A. Prothrombin
- B. Albumin
- C. Hemoglobin
- D. Fibrinogen



18.

Which protein helps in maintaining the osmotic balance of blood?

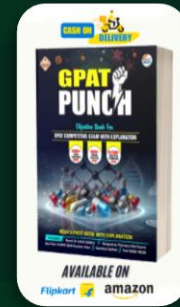
- A. Prothrombin
- B. Albumin
- C. Hemoglobin
- D. Fibrinogen



19.

What triggers the intrinsic pathway of blood coagulation?

- A. Tissue injury
- B. Contact with a foreign surface
- C. Platelet aggregation
- D. Endothelial cell activation



19.

What triggers the intrinsic pathway of blood coagulation?

- A. Tissue injury
- B. Contact with a foreign surface
- C. Platelet aggregation
- D. Endothelial cell activation



20.

Which type of granulocyte is least abundant in blood?

- A. Neutrophil
- B. Eosinophil
- C. Basophil
- D. Monocyte



20.

Which type of granulocyte is least abundant in blood?

- A. Neutrophil
- B. Eosinophil
- C. Basophil
- D. Monocyte



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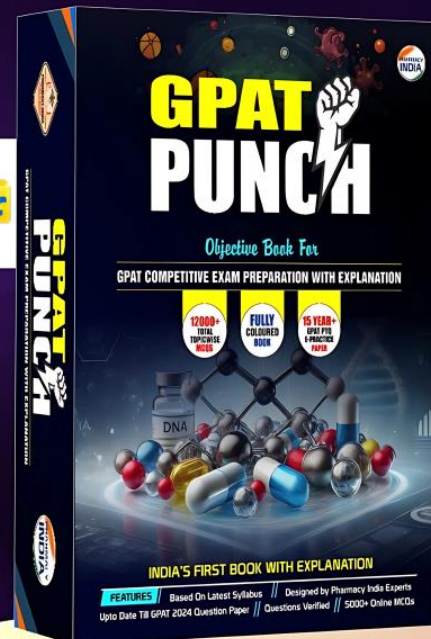
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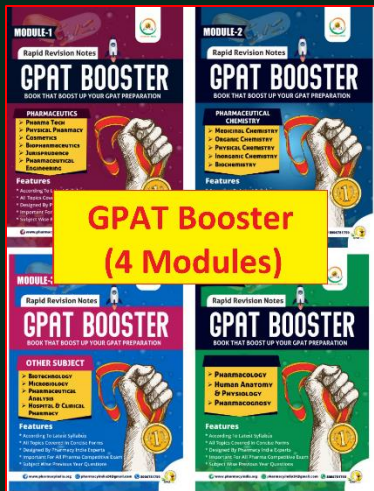
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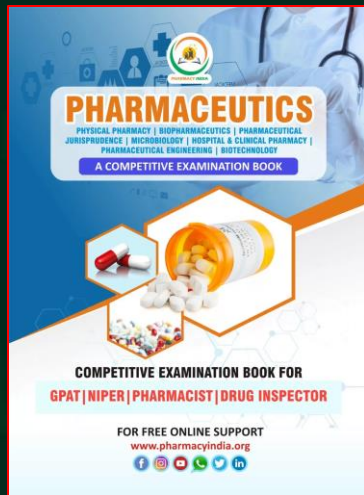
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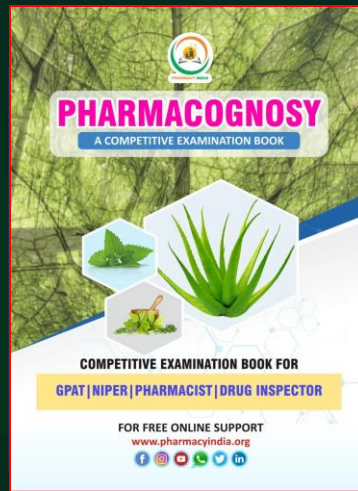


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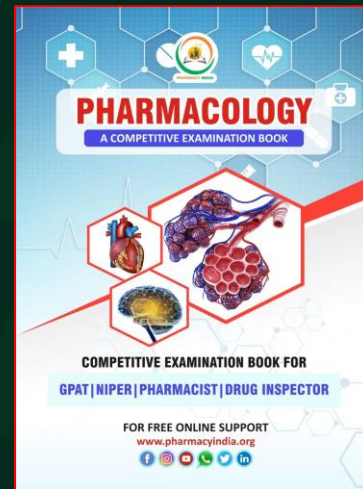
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21.

What is the average volume of blood in an adult human?

- A. 2-3 liters
- B. 4-5 liters
- C. 5-6 liters
- D. 7-8 liters



21.

What is the average volume of blood in an adult human?

- A. 2-3 liters
- B. 4-5 liters
- C. 5-6 liters
- D. 7-8 liters



22.

Which type of leukocyte can transform into a macrophage in tissues?

- A. Neutrophil
- B. Monocyte
- C. Lymphocyte
- D. Basophil



22.

Which type of leukocyte can transform into a macrophage in tissues?

- A. Neutrophil
- B. Monocyte
- C. Lymphocyte
- D. Basophil



23.

Which gas is bound to hemoglobin for excretion from the body?

- A. Oxygen
- B. Carbon dioxide
- C. Nitrogen
- D. Methane



23.

Which gas is bound to hemoglobin for excretion from the body?

- A. Oxygen
- B. Carbon dioxide
- C. Nitrogen
- D. Methane



24.

What is the normal range of hematocrit in adult females?

- A. 20-30%
- B. 30-37%
- C. 37-43%
- D. 43-49%



24.

What is the normal range of hematocrit in adult females?

- A. 20-30%
- B. 30-37%
- C. 37-43%
- D. 43-49%



25.

Which clotting factor is activated directly by thrombin?

- A. Factor VIII
- B. Factor IX
- C. Fibrinogen
- D. Prothrombin



25.

Which clotting factor is activated directly by thrombin?

- A. Factor VIII
- B. Factor IX
- C. Fibrinogen
- D. Prothrombin



26.

Which of the following is the main stimulus for the release of secretin from the duodenum?

- a) High protein content in food
- b) Low pH (acidic chyme) in the duodenum
- c) High fat content in food
- d) Stretching of the stomach



26.

Which of the following is the main stimulus for the release of secretin from the duodenum?

- a) High protein content in food
- b) Low pH (acidic chyme) in the duodenum
- c) High fat content in food
- d) Stretching of the stomach



27.

In the process of glycogenolysis, the liver releases glucose into the bloodstream in response to:

- a) Increased blood glucose levels
- b) Decreased blood glucose levels
- c) Increased insulin levels
- d) Increased glucagon secretion



27.

In the process of glycogenolysis, the liver releases glucose into the bloodstream in response to:

- a) Increased blood glucose levels
- b) Decreased blood glucose levels
- c) Increased insulin levels
- d) Increased glucagon secretion



28.

Which organ is responsible for the mechanical breakdown of food through muscular contractions?

- a) Esophagus
- b) Stomach
- c) Small intestine
- d) Pancreas



28.

Which organ is responsible for the mechanical breakdown of food through muscular contractions?

- a) Esophagus
- b) Stomach
- c) Small intestine
- d) Pancreas



29.

Where does the absorption of water primarily occur in the alimentary canal?

- a) Stomach
- b) Small intestine
- c) Large intestine
- d) Esophagus



29.

Where does the absorption of water primarily occur in the alimentary canal?

- a) Stomach
- b) Small intestine
- c) Large intestine
- d) Esophagus



30.

Which organ is responsible for the production of digestive enzymes that break down carbohydrates, proteins, and fats?

- a) Pancreas
- b) Gallbladder
- c) Stomach
- d) Small intestine



30.

Which organ is responsible for the production of digestive enzymes that break down carbohydrates, proteins, and fats?

- a) Pancreas
- b) Gallbladder
- c) Stomach
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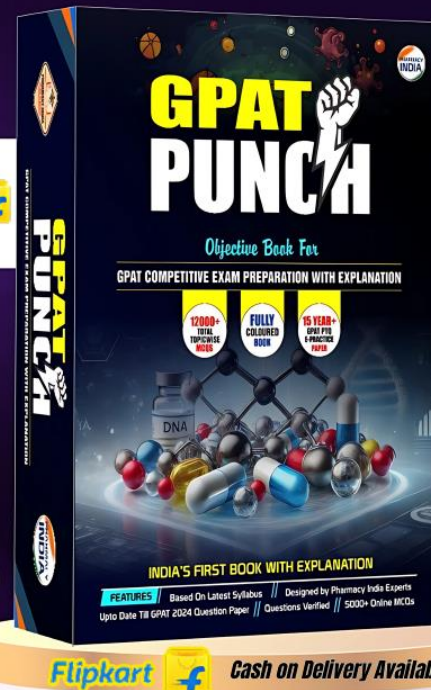
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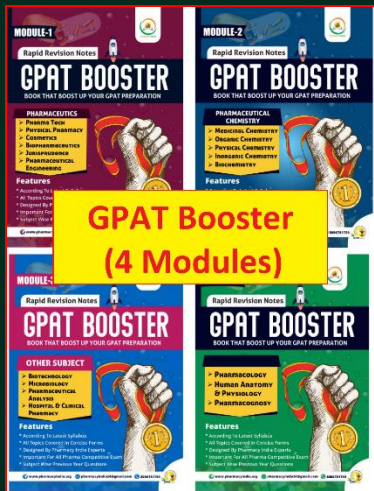


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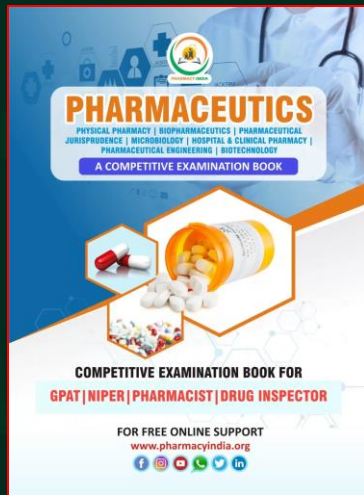
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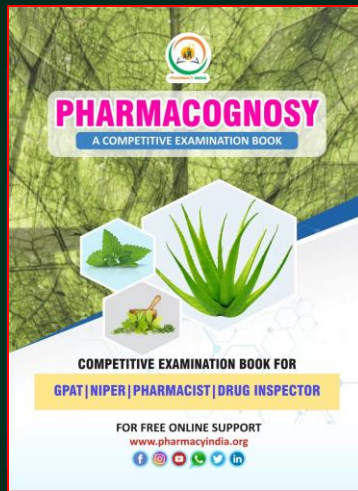


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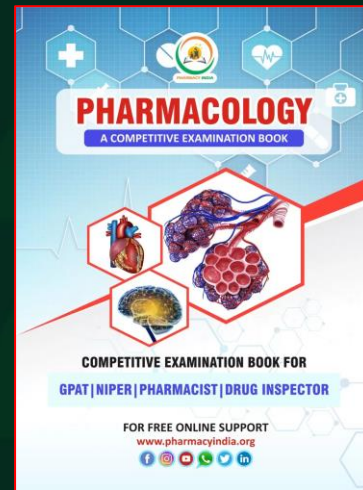
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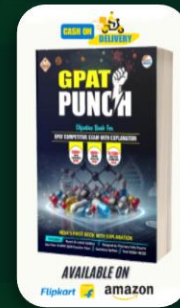
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31.

Which structure prevents food from entering the trachea during swallowing?

- a) Epiglottis
- b) Uvula
- c) Tonsils
- d) Vocal cords



31.

Which structure prevents food from entering the trachea during swallowing?

- a) Epiglottis
- b) Uvula
- c) Tonsils
- d) Vocal cords



32.

Where does the process of chemical digestion primarily occur?

- a) Stomach
- b) Esophagus
- c) Mouth
- d) Small intestine



32.

Where does the process of chemical digestion primarily occur?

- a) Stomach
- b) Esophagus
- c) Mouth
- d) Small intestine



33.

How many permanent molars are there in an adult human mouth?

- a) 4
- b) 8
- c) 12
- d) 16



33.

How many permanent molars are there in an adult human mouth?

- a) 4
- b) 8
- c) 12
- d) 16



34.

Which type of teeth are commonly known as "eye teeth" and are used for tearing and grasping food?

- a) Incisors
- b) Canines
- c) Premolars
- d) Molars



34.

Which type of teeth are commonly known as "eye teeth" and are used for tearing and grasping food?

- a) Incisors
- b) Canines
- c) Premolars
- d) Molars



35.

Which gland produces digestive enzymes such as lipase, amylase, and proteases?

- a) Salivary glands
- b) Liver
- c) Pancreas
- d) Gastric glands



35.

Which gland produces digestive enzymes such as lipase, amylase, and proteases?

- a) Salivary glands
- b) Liver
- c) Pancreas
- d) Gastric glands



36.

Which gland plays a crucial role in the metabolism of carbohydrates, proteins, and fats?

- a) Salivary glands
- b) Liver
- c) Pancreas
- d) Gastric glands



36.

Which gland plays a crucial role in the metabolism of carbohydrates, proteins, and fats?

- a) Salivary glands
- b) Liver
- c) Pancreas
- d) Gastric glands



37.

Which gland produces hydrochloric acid, intrinsic factor, and digestive enzymes like pepsinogen?

- a) Salivary glands
- b) Liver
- c) Pancreas
- d) Gastric glands



37.

Which gland produces hydrochloric acid, intrinsic factor, and digestive enzymes like pepsinogen?

- a) Salivary glands
- b) Liver
- c) Pancreas
- d) Gastric glands



38.

Which enzyme is responsible for the conversion of trypsinogen into its active form, trypsin?

- a) Lipase
- b) Amylase
- c) Pepsin
- d) Enterokinase



38.

Which enzyme is responsible for the conversion of trypsinogen into its active form, trypsin?

- a) Lipase
- b) Amylase
- c) Pepsin
- d) Enterokinase



39.

Which enzyme is responsible for breaking down carbohydrates into simple sugars like glucose?

- a) Lipase
- b) Amylase
- c) Pepsin
- d) Trypsin



39.

Which enzyme is responsible for breaking down carbohydrates into simple sugars like glucose?

- a) Lipase
- b) Amylase
- c) Pepsin
- d) Trypsin



40.

What is the term used to describe the inflammation of the pancreas, often caused by gallstones or alcohol abuse?

- a) Hepatitis
- b) Cirrhosis
- c) Pancreatitis
- d) Cholecystitis



40.

What is the term used to describe the inflammation of the pancreas, often caused by gallstones or alcohol abuse?

- a) Hepatitis
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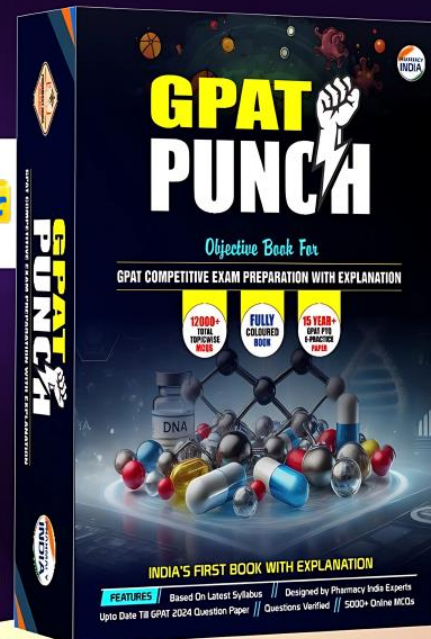
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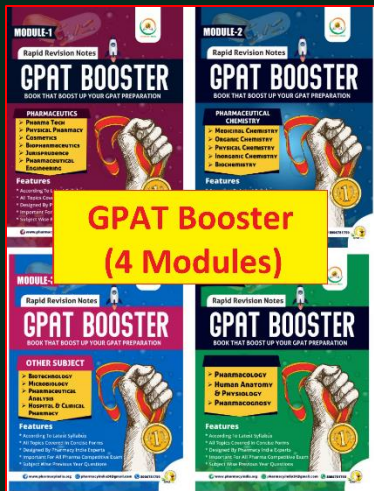
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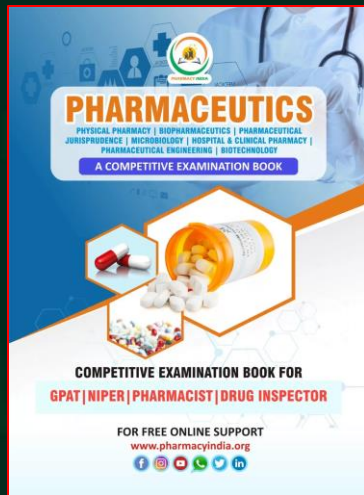
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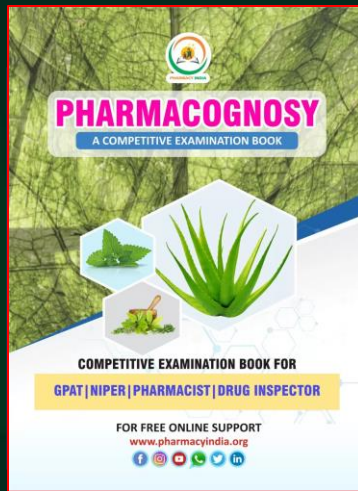


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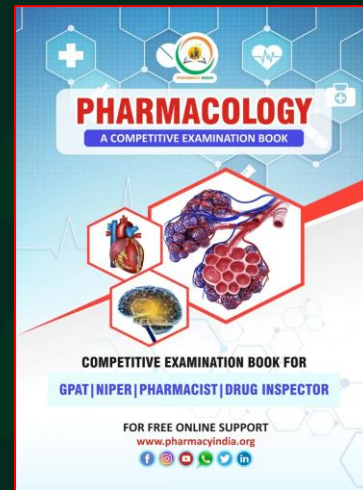
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41.

Which of the following is a part of the digestive tract that has no digestive function but is important in immunity?

- a) Stomach
- b) Small intestine
- c) Appendix
- d) Pancreas



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42.

Which part of the small intestine is primarily responsible for absorbing nutrients?

- a) Duodenum
- b) Jejunum
- c) Ileum
- d) Cecum



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43.

The digestive system's "first line of defense" against ingested pathogens is the:

- a) Stomach acid
- b) Pancreas
- c) Large intestine
- d) Small intestine



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44.

Which of the following hormones inhibits gastric secretion and motility during the cephalic phase of digestion?

- a) Secretin
- b) Somatostatin
- c) Cholecystokinin (CCK)
- d) Ghrelin



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45.

Which of the following conditions is characterized by inflammation of the gastrointestinal tract and is often associated with ulceration?

- a) Crohn's disease
- b) Irritable bowel syndrome
- c) Celiac disease
- d) Gastroesophageal reflux disease (GERD)



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46.

Which of the following best describes the role of the pancreatic duct in digestion?

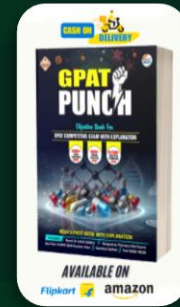
- a) Transports bile to the small intestine
- b) Secretes digestive enzymes into the stomach
- c) Carries digestive enzymes and bicarbonate to the duodenum
- d) Absorbs nutrients in the small intestine



46.

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47.

Which of the following is a major function of the colon?

- a) Secretion of digestive enzymes
- b) Absorption of nutrients from digested food
- c) Reabsorption of water and electrolytes
- d) Secretion of bile for digestion of fats



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48.

Which of the following causes the relaxation of the lower esophageal sphincter, leading to gastroesophageal reflux?

- a) Increase in gastric pressure
- b) Vagal stimulation
- c) Inhibition of gastric acid secretion
- d) Increased production of pepsin



48.

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- d) Increased production of pepsin



49.

Which of the following is the main function of the intestinal microvilli?

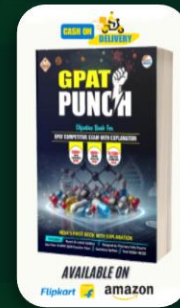
- a) Secretion of digestive enzymes
- b) Absorption of digested nutrients
- c) Neutralization of stomach acid
- d) Storage of bile



49.

Which of the following is the main function of the intestinal microvilli?

- a) Secretion of digestive enzymes
- b) Absorption of digested nutrients
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50.

Which of the following stimulates the secretion of bile from the gallbladder?

- a) Secretin
- b) Gastrin
- c) Cholecystikinin (CCK)
- d) Somatostatin



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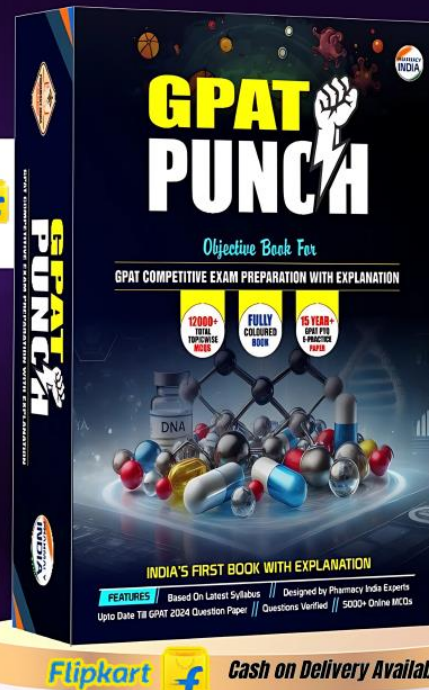
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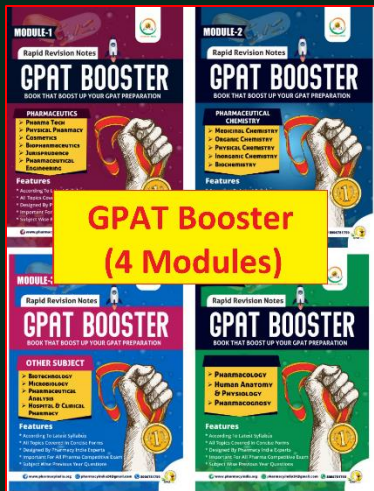


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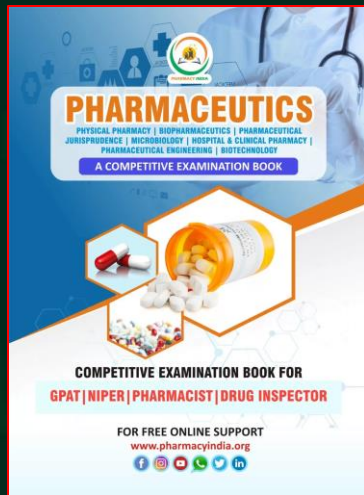
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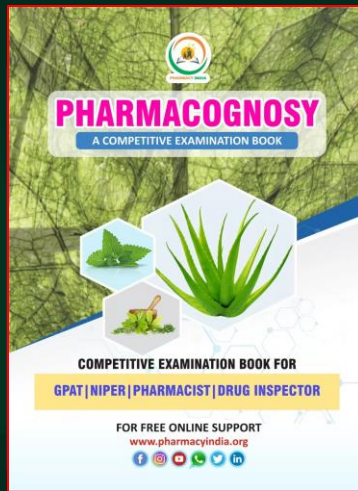


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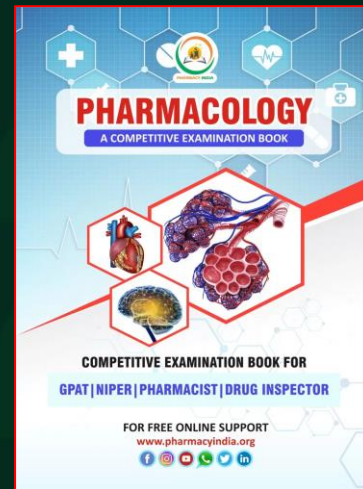
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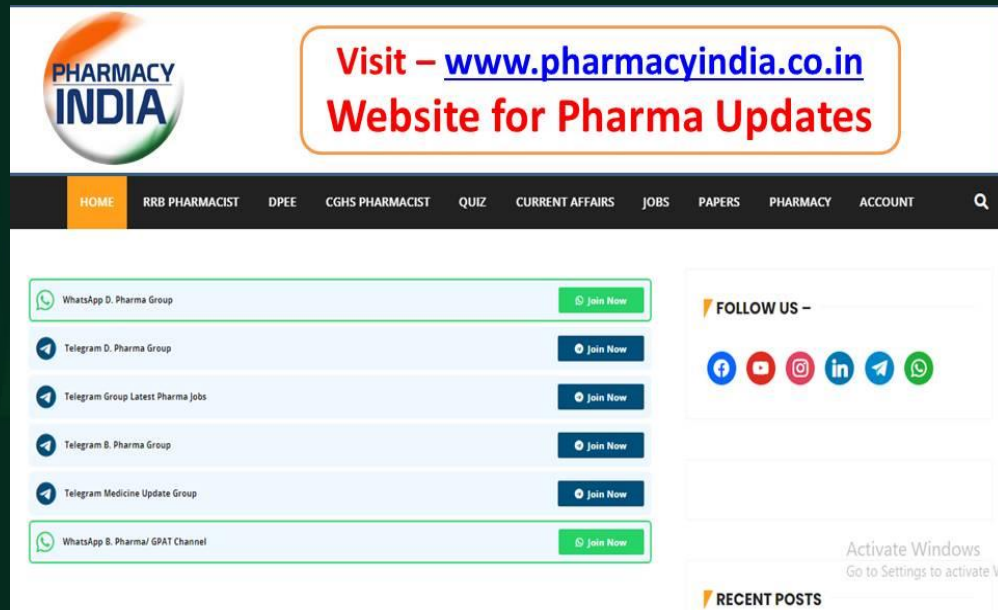
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