



GPAT 2025

PHASE-II

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GPAT MANIA 2.0

BY TANU MAM

 Live Class

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Lecture
25

BIOCHEMISTRY

VITAMINS

TOPIC

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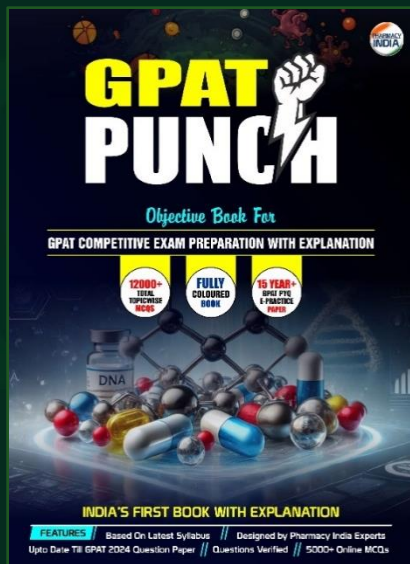
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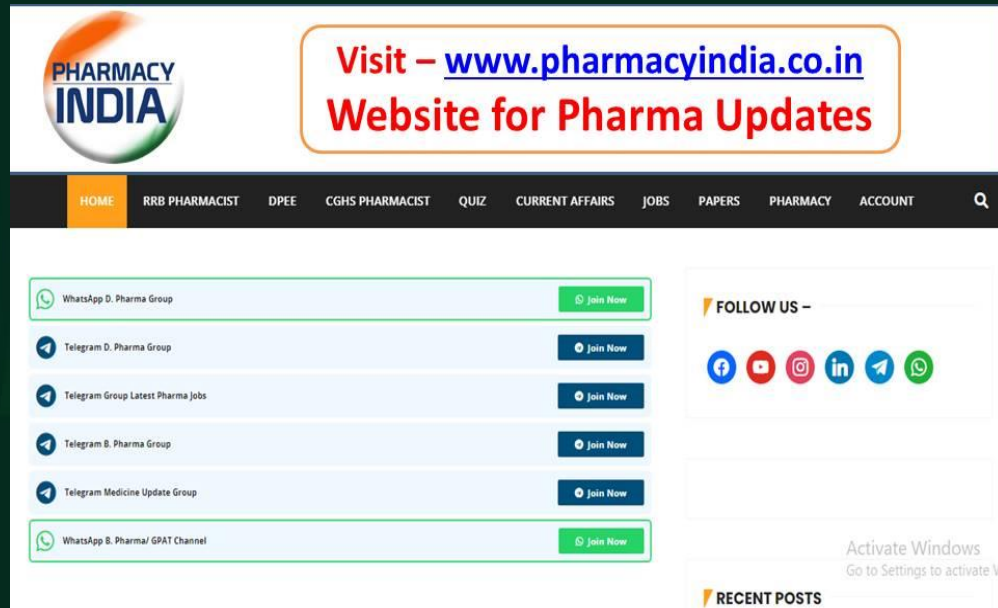
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1.

Which form of Vitamin A is involved in vision as a component of the visual pigment rhodopsin?

- a) Retinol
- b) Retinal
- c) Retinoic acid
- d) Beta-carotene



1.

Which form of Vitamin A is involved in vision as a component of the visual pigment rhodopsin?

- a) Retinol
- b) Retinal
- c) Retinoic acid
- d) Beta-carotene



2.

Which of the following vitamins acts as a coenzyme for carboxylation reactions?

- a) Vitamin C
- b) Vitamin B7 (Biotin)
- c) Vitamin K
- d) Vitamin B1 (Thiamine)



2.

Which of the following vitamins acts as a coenzyme for carboxylation reactions?

- a) Vitamin C
- b) Vitamin B7 (Biotin)
- c) Vitamin K
- d) Vitamin B1 (Thiamine)



3.

The deficiency of which vitamin leads to Wernicke-Korsakoff syndrome?

- a) Vitamin B6 (Pyridoxine)
- b) Vitamin B1 (Thiamine)
- c) Vitamin B12 (Cobalamin)
- d) Vitamin B9 (Folate)



3.

The deficiency of which vitamin leads to Wernicke-Korsakoff syndrome?

- a) Vitamin B6 (Pyridoxine)
- b) Vitamin B1 (Thiamine)
- c) Vitamin B12 (Cobalamin)
- d) Vitamin B9 (Folate)



4.

Vitamin K is essential for the post-translational modification of which amino acid in clotting factors?

- a) Lysine
- b) Glutamate
- c) Serine
- d) Arginine



4.

Vitamin K is essential for the post-translational modification of which amino acid in clotting factors?

- a) Lysine
- b) Glutamate
- c) Serine
- d) Arginine



Which vitamin deficiency is associated with megaloblastic anemia and neurological symptoms?

- a) Vitamin B6
- b) Vitamin B12
- c) Vitamin C
- d) Vitamin E



5.

Which vitamin deficiency is associated with megaloblastic anemia and neurological symptoms?

- a) Vitamin B6
- b) Vitamin B12
- c) Vitamin C
- d) Vitamin E



6.

Pellagra, characterized by dermatitis, diarrhea, and dementia, is caused by a deficiency of:

- a) Niacin (Vitamin B3)
- b) Riboflavin (Vitamin B2)
- c) Thiamine (Vitamin B1)
- d) Folic acid (Vitamin B9)



6.

Pellagra, characterized by dermatitis, diarrhea, and dementia, is caused by a deficiency of:

- a) Niacin (Vitamin B3)
- b) Riboflavin (Vitamin B2)
- c) Thiamine (Vitamin B1)
- d) Folic acid (Vitamin B9)



7.

Which vitamin acts as a coenzyme in the synthesis of neurotransmitters such as serotonin, dopamine, and GABA?

- a) Vitamin B6 (Pyridoxine)
- b) Vitamin B12 (Cobalamin)
- c) Vitamin B9 (Folate)
- d) Vitamin C (Ascorbic acid)



7.

Which vitamin acts as a coenzyme in the synthesis of neurotransmitters such as serotonin, dopamine, and GABA?

- a) Vitamin B6 (Pyridoxine)
- b) Vitamin B12 (Cobalamin)
- c) Vitamin B9 (Folate)
- d) Vitamin C (Ascorbic acid)



8. A deficiency of which vitamin can lead to hemorrhagic disease of the newborn?

- a) Vitamin D
- b) Vitamin K
- c) Vitamin E
- d) Vitamin C



8. A deficiency of which vitamin can lead to hemorrhagic disease of the newborn?

- a) Vitamin D
- b) Vitamin K
- c) Vitamin E
- d) Vitamin C



9.

What is the active coenzyme form of Vitamin B1 (Thiamine)?

- a) Flavin mononucleotide (FMN)
- b) Thiamine pyrophosphate (TPP)
- c) Nicotinamide adenine dinucleotide (NAD)
- d) Pyridoxal phosphate (PLP)



9.

What is the active coenzyme form of Vitamin B1 (Thiamine)?

- a) Flavin mononucleotide (FMN)
- b) Thiamine pyrophosphate (TPP)
- c) Nicotinamide adenine dinucleotide (NAD)
- d) Pyridoxal phosphate (PLP)



10.

Which vitamin deficiency leads to peripheral neuropathy, particularly in alcoholics?

- a) Vitamin B1
- b) Vitamin B6
- c) Vitamin B12
- d) Vitamin E



10.

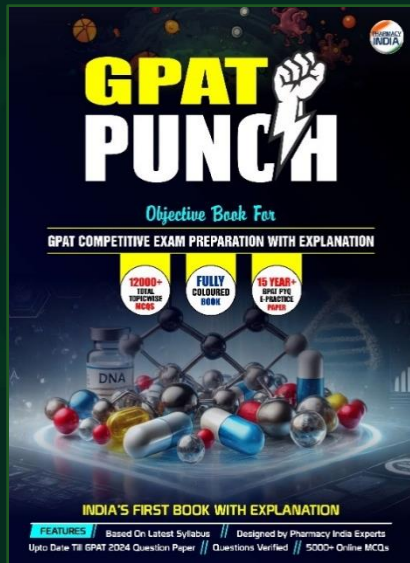
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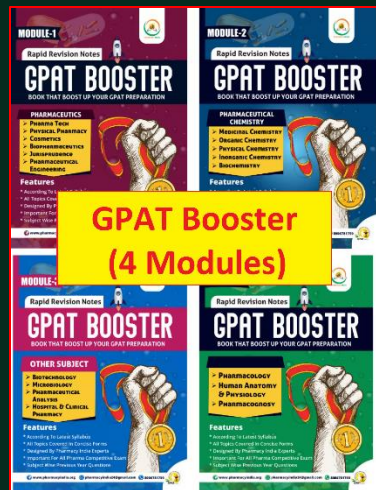
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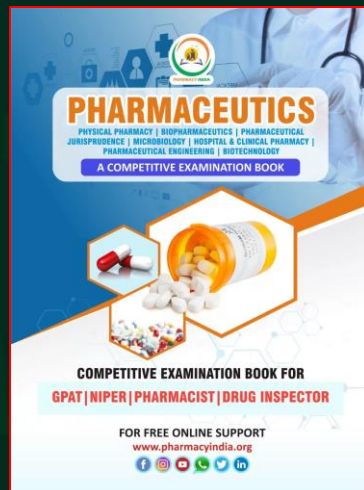
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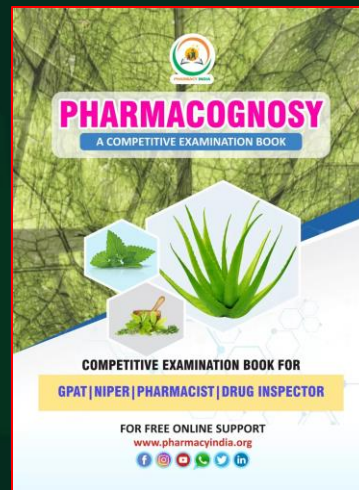
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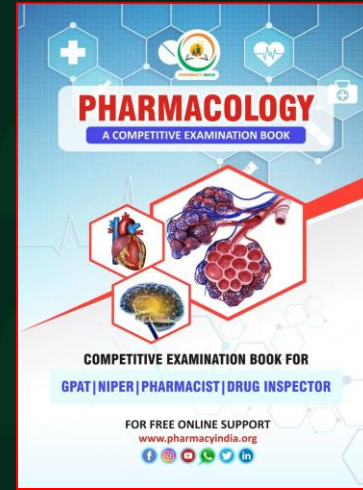
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11.

Which of the following is a water-soluble antioxidant?

- a) Vitamin A
- b) Vitamin E
- c) Vitamin C
- d) Vitamin K



11.

Which of the following is a water-soluble antioxidant?

- a) Vitamin A
- b) Vitamin E
- c) Vitamin C
- d) Vitamin K



12.

Which vitamin is essential for the hydroxylation of proline and lysine residues in collagen synthesis?

- a) Vitamin A
- b) Vitamin C
- c) Vitamin D
- d) Vitamin B7



12.

Which vitamin is essential for the hydroxylation of proline and lysine residues in collagen synthesis?

- a) Vitamin A
- b) Vitamin C
- c) Vitamin D
- d) Vitamin B7



13.

Hypervitaminosis of which vitamin can cause hypercalcemia and kidney damage?

- a) Vitamin A
- b) Vitamin D
- c) Vitamin E
- d) Vitamin K



13.

Hypervitaminosis of which vitamin can cause hypercalcemia and kidney damage?

- a) Vitamin A
- b) Vitamin D
- c) Vitamin E
- d) Vitamin K



14.

Which vitamin is a precursor of coenzymes FAD and FMN?

- a) Vitamin B2 (Riboflavin)
- b) Vitamin B3 (Niacin)
- c) Vitamin B5 (Pantothenic acid)
- d) Vitamin B7 (Biotin)



14.

Which vitamin is a precursor of coenzymes FAD and FMN?

- a) Vitamin B2 (Riboflavin)
- b) Vitamin B3 (Niacin)
- c) Vitamin B5 (Pantothenic acid)
- d) Vitamin B7 (Biotin)



15.

Which fat-soluble vitamin acts as an antioxidant and protects cell membranes from oxidative damage?

- a) Vitamin A
- b) Vitamin E
- c) Vitamin K
- d) Vitamin D



15.

Which fat-soluble vitamin acts as an antioxidant and protects cell membranes from oxidative damage?

- a) Vitamin A
- b) Vitamin E**
- c) Vitamin K
- d) Vitamin D



16.

Which vitamin plays a role in the metabolism of homocysteine to methionine?

- a) Vitamin B6
- b) Vitamin B12
- c) Vitamin C
- d) Vitamin B2



16.

Which vitamin plays a role in the metabolism of homocysteine to methionine?

- a) Vitamin B6
- b) Vitamin B12
- c) Vitamin C
- d) Vitamin B2



17.

Which vitamin deficiency causes scurvy, leading to bleeding gums and delayed wound healing?

- a) Vitamin C
- b) Vitamin B1
- c) Vitamin A
- d) Vitamin D



17.

Which vitamin deficiency causes scurvy, leading to bleeding gums and delayed wound healing?

- a) Vitamin C
- b) Vitamin B1
- c) Vitamin A
- d) Vitamin D



18.

What is the function of Vitamin D in calcium metabolism?

- a) Enhances calcium absorption in the intestines
- b) Inhibits calcium reabsorption in the kidneys
- c) Inhibits bone resorption
- d) Promotes calcium excretion



18.

What is the function of Vitamin D in calcium metabolism?

- a) Enhances calcium absorption in the intestines
- b) Inhibits calcium reabsorption in the kidneys
- c) Inhibits bone resorption
- d) Promotes calcium excretion



19.

Which of the following vitamins is involved in DNA synthesis and repair?

- a) Vitamin B9 (Folate)
- b) Vitamin B6 (Pyridoxine)
- c) Vitamin B2 (Riboflavin)
- d) Vitamin A



19.

Which of the following vitamins is involved in DNA synthesis and repair?

- a) Vitamin B9 (Folate)
- b) Vitamin B6 (Pyridoxine)
- c) Vitamin B2 (Riboflavin)
- d) Vitamin A



20.

Beriberi is caused by a deficiency of which vitamin?

- a) Vitamin B1 (Thiamine)
- b) Vitamin B2 (Riboflavin)
- c) Vitamin B3 (Niacin)
- d) Vitamin B6 (Pyridoxine)



20.

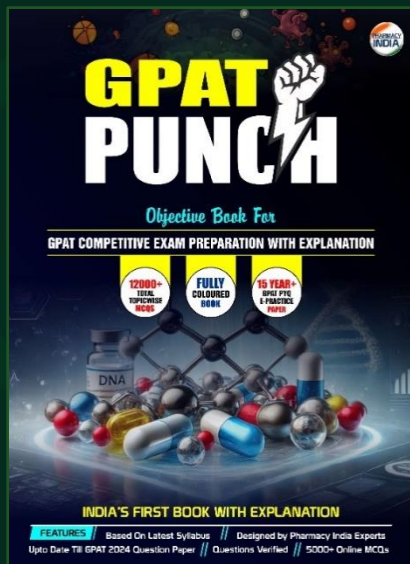
Beriberi is caused by a deficiency of which vitamin?

- a) Vitamin B1 (Thiamine)
- b) Vitamin B2 (Riboflavin)
- c) Vitamin B3 (Niacin)
- d) Vitamin B6 (Pyridoxine)



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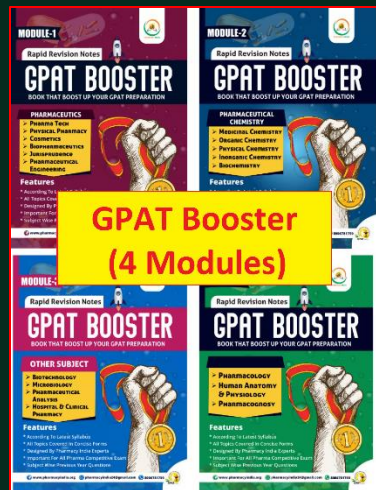
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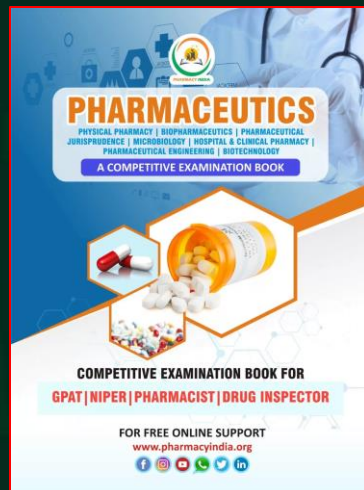
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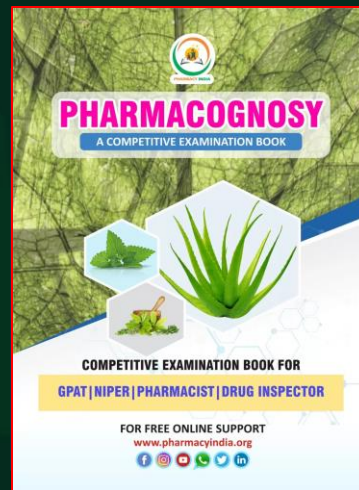
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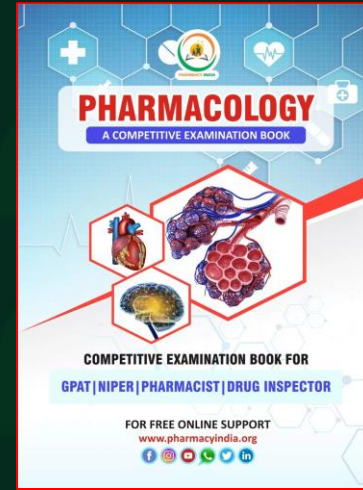
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21.

Which vitamin is involved in the synthesis of coenzyme A?

- a) Vitamin B1 (Thiamine)
- b) Vitamin B2 (Riboflavin)
- c) Vitamin B5 (Pantothenic acid)
- d) Vitamin B7 (Biotin)



21.

Which vitamin is involved in the synthesis of coenzyme A?

- a) Vitamin B1 (Thiamine)
- b) Vitamin B2 (Riboflavin)
- c) Vitamin B5 (Pantothenic acid)
- d) Vitamin B7 (Biotin)



22.

A deficiency of which vitamin can cause night blindness?

- a) Vitamin A
- b) Vitamin C
- c) Vitamin E
- d) Vitamin K



22.

A deficiency of which vitamin can cause night blindness?

- a) Vitamin A
- b) Vitamin C
- c) Vitamin E
- d) Vitamin K



23.

Which vitamin is known for its role in calcium and phosphate metabolism and is critical for bone health?

- a) Vitamin A
- b) Vitamin D
- c) Vitamin E
- d) Vitamin K



23.

Which vitamin is known for its role in calcium and phosphate metabolism and is critical for bone health?

- a) Vitamin A
- b) Vitamin D
- c) Vitamin E
- d) Vitamin K



24.

Which vitamin deficiency leads to megaloblastic anemia and neural tube defects in pregnant women?

- a) Vitamin B6
- b) Vitamin B9 (Folate)
- c) Vitamin B12
- d) Vitamin A



24.

Which vitamin deficiency leads to megaloblastic anemia and neural tube defects in pregnant women?

- a) Vitamin B6
- b) Vitamin B9 (Folate)
- c) Vitamin B12
- d) Vitamin A



25.

Which enzyme is required for the conversion of Vitamin D to its active form, calcitriol?

- a) 1-alpha-hydroxylase
- b) 25-hydroxylase
- c) Hydroxylase
- d) Aldosterone synthase



25.

Which enzyme is required for the conversion of Vitamin D to its active form, calcitriol?

- a) 1-alpha-hydroxylase
- b) 25-hydroxylase
- c) Hydroxylase
- d) Aldosterone synthase



26.

Vitamin B12 deficiency can result in which of the following conditions?

- a) Beriberi
- b) Scurvy
- c) Megaloblastic anemia
- d) Rickets



26.

Vitamin B12 deficiency can result in which of the following conditions?

- a) Beriberi
- b) Scurvy
- c) Megaloblastic anemia
- d) Rickets



27.

Which vitamin is involved in the production of red blood cells and the synthesis of hemoglobin?

- a) Vitamin K
- b) Vitamin B6
- c) Vitamin B9
- d) Vitamin B12



27.

Which vitamin is involved in the production of red blood cells and the synthesis of hemoglobin?

- a) Vitamin K
- b) Vitamin B6
- c) Vitamin B9
- d) Vitamin B12



28.

Which vitamin is required for the conversion of tryptophan to niacin (vitamin B3)?

- a) Vitamin B1
- b) Vitamin B2
- c) Vitamin B6
- d) Vitamin B7



28.

Which vitamin is required for the conversion of tryptophan to niacin (vitamin B3)?

- a) Vitamin B1
- b) Vitamin B2
- c) Vitamin B6
- d) Vitamin B7



29.

Which of the following vitamins helps in the absorption of iron from the gastrointestinal tract?

- a) Vitamin A
- b) Vitamin C
- c) Vitamin E
- d) Vitamin K



29.

Which of the following vitamins helps in the absorption of iron from the gastrointestinal tract?

- a) Vitamin A
- b) Vitamin C
- c) Vitamin E
- d) Vitamin K



30.

Which vitamin is necessary for the synthesis of the neurotransmitter acetylcholine?

- a) Vitamin B1
- b) Vitamin B5
- c) Vitamin B6
- d) Vitamin B7



30.

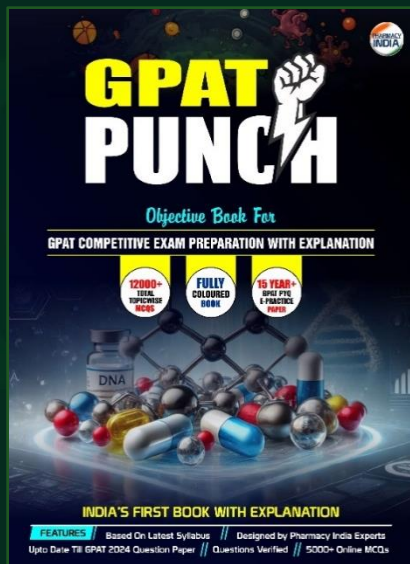
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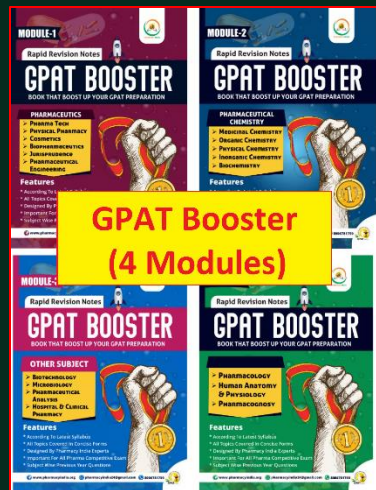
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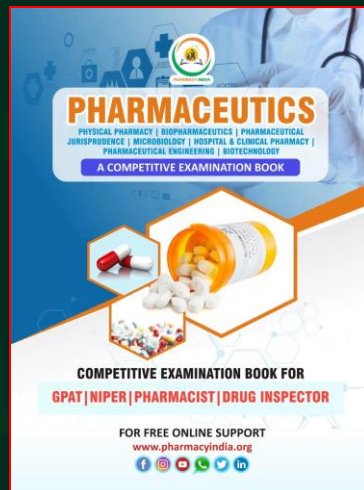
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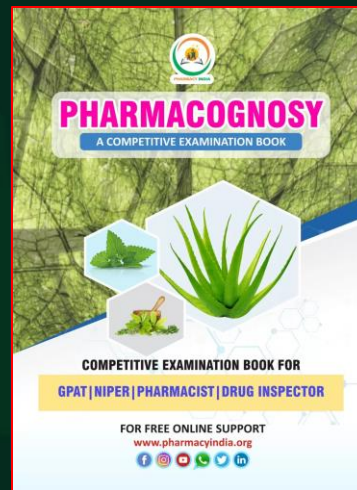


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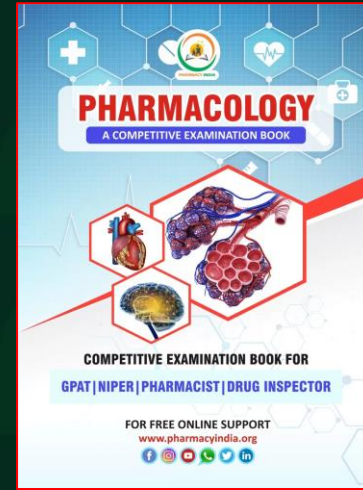
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31.

What is the primary function of vitamin E in the body?

- a) Immune function support
- b) Antioxidant protection
- c) Bone health
- d) Vision health



31.

What is the primary function of vitamin E in the body?

- a) Immune function support
- b) Antioxidant protection
- c) Bone health
- d) Vision health



32.

A deficiency in which vitamin can lead to a condition called rickets in children and osteomalacia in adults?

- a) Vitamin A
- b) Vitamin D
- c) Vitamin E
- d) Vitamin K



32.

A deficiency in which vitamin can lead to a condition called rickets in children and osteomalacia in adults?

- a) Vitamin A
- b) Vitamin D
- c) Vitamin E
- d) Vitamin K



33.

Which of the following vitamins plays a role in the synthesis of collagen, a key structural protein in connective tissue?

- a) Vitamin A
- b) Vitamin C
- c) Vitamin D
- d) Vitamin K



33.

Which of the following vitamins plays a role in the synthesis of collagen, a key structural protein in connective tissue?

- a) Vitamin A
- b) Vitamin C
- c) Vitamin D
- d) Vitamin K



34.

Which of the following is the primary symptom of vitamin B12 deficiency?

- a) Xerophthalmia
- b) Megaloblastic anemia
- c) Night blindness
- d) Bone deformities



34.

Which of the following is the primary symptom of vitamin B12 deficiency?

- a) Xerophthalmia
- b) Megaloblastic anemia
- c) Night blindness
- d) Bone deformities



35.

Which vitamin is involved in the conversion of homocysteine to methionine?

- a) Vitamin B9 (Folate)
- b) Vitamin B12 (Cobalamin)
- c) Vitamin B6 (Pyridoxine)
- d) Vitamin C



35.

Which vitamin is involved in the conversion of homocysteine to methionine?

- a) Vitamin B9 (Folate)
- b) Vitamin B12 (Cobalamin)
- c) Vitamin B6 (Pyridoxine)
- d) Vitamin C



36.

Which of the following vitamins contains a benzene ring fused with a naphthalene ring in its structure?

- a) Vitamin A
- b) Vitamin E
- c) Vitamin K
- d) Vitamin D



36.

Which of the following vitamins contains a benzene ring fused with a naphthalene ring in its structure?

- a) Vitamin A
- b) Vitamin E
- c) Vitamin K
- d) Vitamin D



37.

Which of the following vitamins has a structure containing a single, six-membered ring that serves as part of its function?

- a) Vitamin K
- b) Vitamin C
- c) Vitamin D
- d) Vitamin B1



37.

Which of the following vitamins has a structure containing a single, six-membered ring that serves as part of its function?

- a) Vitamin K
- b) Vitamin C
- c) Vitamin D
- d) Vitamin B1



38.

The structure of Vitamin B3 (Niacin) contains a ring system that is known as:

- a) Pyrimidine ring
- b) Pyrrole ring
- c) Quinoline ring
- d) Imidazole ring



38.

The structure of Vitamin B3 (Niacin) contains a ring system that is known as:

- a) Pyrimidine ring
- b) Pyrrole ring
- c) Quinoline ring
- d) Imidazole ring



39.

Which vitamin contains a structure with a cyclohexene ring fused to a benzene ring system?

- a) Vitamin K
- b) Vitamin E
- c) Vitamin D
- d) Vitamin A



39.

Which vitamin contains a structure with a cyclohexene ring fused to a benzene ring system?

- a) Vitamin K
- b) Vitamin E
- c) Vitamin D
- d) Vitamin A



40.

Vitamin B6 (Pyridoxine) contains a pyridine ring system, which is classified as a type of:

- a) Six-membered heterocyclic ring
- b) Five-membered heterocyclic ring
- c) Four-membered ring
- d) Three-membered ring



40.

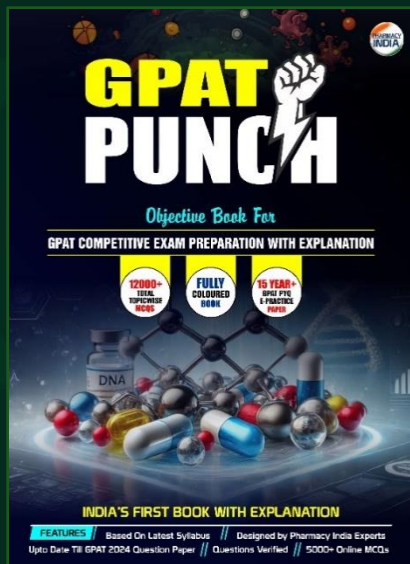
Vitamin B6 (Pyridoxine) contains a pyridine ring system, which is classified as a type of:

- a) Six-membered heterocyclic ring
- b) Five-membered heterocyclic ring
- c) Four-membered ring
- d) Three-membered ring



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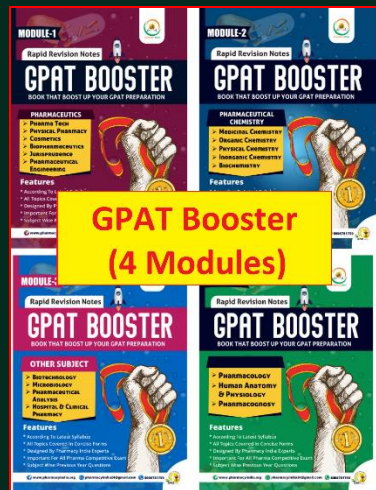
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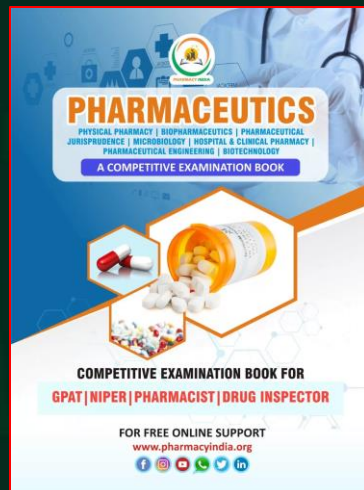
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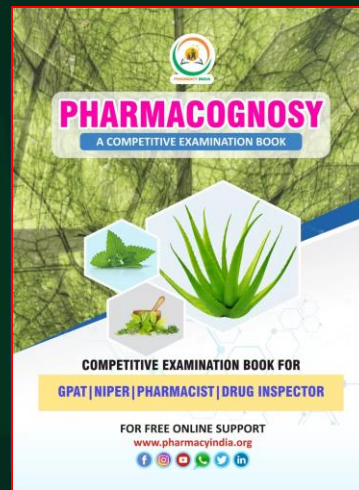


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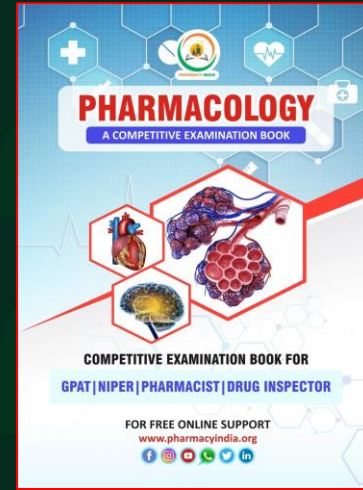
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41.

Which of the following vitamins contains a structure with a β -ionone ring system?

- a) Vitamin A
- b) Vitamin C
- c) Vitamin D
- d) Vitamin E



41.

Which of the following vitamins contains a structure with a β -ionone ring system?

- a) Vitamin A
- b) Vitamin C
- c) Vitamin D
- d) Vitamin E



42.

Which vitamin contains a structure with a fused pyrrole ring?

- a) Vitamin B12
- b) Vitamin E
- c) Vitamin K
- d) Vitamin A



42.

Which vitamin contains a structure with a fused pyrrole ring?

- a) Vitamin B12
- b) Vitamin E
- c) Vitamin K
- d) Vitamin A



43.

The structure of Vitamin K includes which of the following?

- a) A fused benzene ring system
- b) A naphthoquinone ring
- c) A pyrimidine ring
- d) A cyclohexane ring



43.

The structure of Vitamin K includes which of the following?

- a) A fused benzene ring system
- b) A naphthoquinone ring
- c) A pyrimidine ring
- d) A cyclohexane ring



44.

Which of the following vitamins contains a lactone ring structure?

- a) Vitamin C
- b) Vitamin B6
- c) Vitamin A
- d) Vitamin D



44.

Which of the following vitamins contains a lactone ring structure?

- a) Vitamin C
- b) Vitamin B6
- c) Vitamin A
- d) Vitamin D



45.

The vitamin B9 (Folate) contains a structure derived from which of the following?

- a) A tetrahydrofolate ring
- b) A pyrrole ring
- c) A quinone ring
- d) A pteridine ring



45.

The vitamin B9 (Folate) contains a structure derived from which of the following?

- a) A tetrahydrofolate ring
- b) A pyrrole ring
- c) A quinone ring
- d) A pteridine ring



46.

The active form of Vitamin B12 contains a coordination complex between cobalt and which of the following rings?

- a) Pyrrole ring
- b) Porphyrin ring
- c) Isoquinoline ring
- d) Pyrimidine ring



46.

The active form of Vitamin B12 contains a coordination complex between cobalt and which of the following rings?

- a) Pyrrole ring
- b) Porphyrin ring
- c) Isoquinoline ring
- d) Pyrimidine ring



47.

Vitamin D contains which type of ring system?

- a) Tetrahydropyran ring
- b) Cyclohexane ring
- c) Steroid ring system
- d) Benzene ring



47.

Vitamin D contains which type of ring system?

- a) Tetrahydropyran ring
- b) Cyclohexane ring
- c) Steroid ring system
- d) Benzene ring



48.

Which vitamin contains a ring structure that involves an α, β -unsaturated ketone moiety?

- a) Vitamin E
- b) Vitamin A
- c) Vitamin K
- d) Vitamin B2



48.

Which vitamin contains a ring structure that involves an α,β -unsaturated ketone moiety?

- a) Vitamin E
- b) Vitamin A
- c) Vitamin K
- d) Vitamin B2



49.

Which ring is a component of the structure of Vitamin B2 (Riboflavin)?

- a) Isoquinoline ring
- b) Pteridine ring
- c) Isoalloxazine ring
- d) Furanose ring



49.

Which ring is a component of the structure of Vitamin B2 (Riboflavin)?

- a) Isoquinoline ring
- b) Pteridine ring
- c) Isoalloxazine ring
- d) Furanose ring



50.

The structure of Vitamin C includes a structure resembling a:

- a) Lactone ring
- b) Benzene ring
- c) Tetrahydropyran ring
- d) Cyclohexane ring



50.

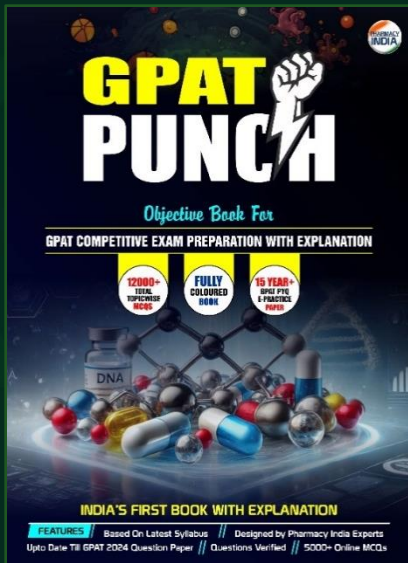
The structure of Vitamin C includes a structure resembling a:

- a) Lactone ring
- b) Benzene ring
- c) Tetrahydropyran ring
- d) Cyclohexane ring



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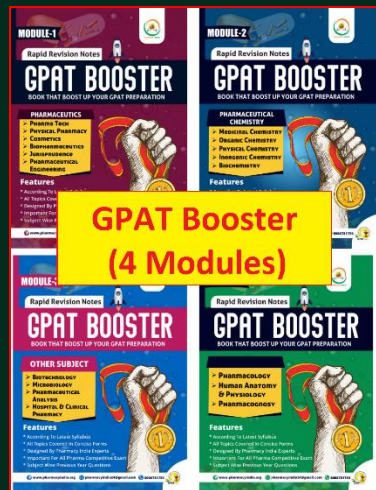
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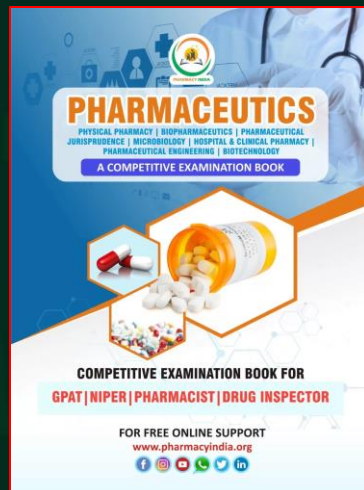
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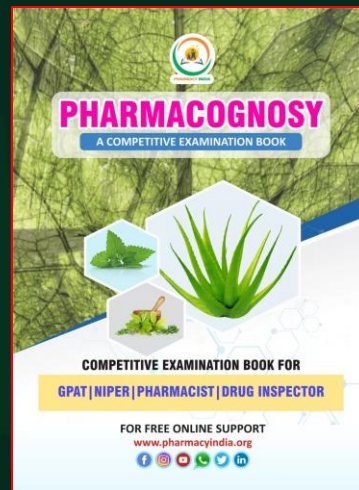
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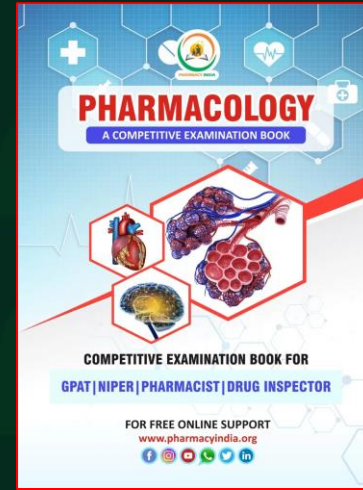
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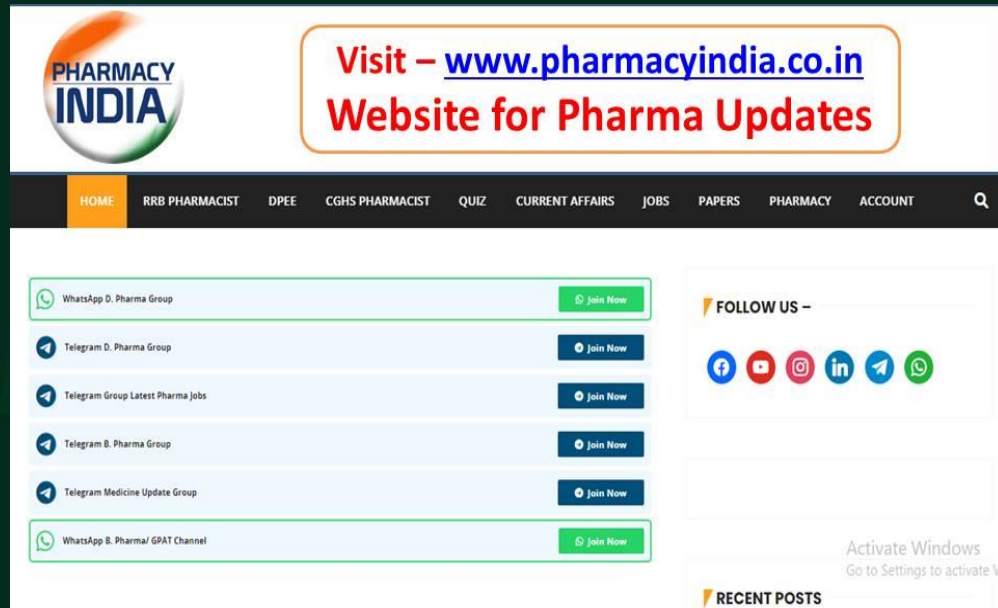
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