



RRB PHARMACIST

MODEL PAPER -3

2024

TIME:-
9 P.M

40 QUESTIONS
WITH DETAILED EXPLANATION

SUBJECT -
CARBOHYDRATES (BIOCHEMISTRY)

VIDEO DEKHNE KE LIYE BANNER PAR CLICK KARE



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PDF NOTES

LINK IS GIVEN IN DESCRIPTION

1.

What is the normal fasting blood sugar level range

- (a) 70-100 mg/dl
- (b) 70-140 mg/dl
- (c) 100-125 mg/dl
- (d) 100-140 mg/dl

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1.

What is the normal fasting blood sugar level range

- (a) 70-100 mg/dl
- (b) 70-140 mg/dl
- (c) 100-125 mg/dl
- (d) 100-140 mg/dl

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2.

Calorific value of carbohydrate is approximately equal to

- (a) 4 Kcal/g
- (c) 0.04 Kcal/g
- (b) 0.4 kcal/g
- (d) 9 Kcal/g

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2.

Calorific value of carbohydrate is approximately equal to

- (a) 4 Kcal/g
- (c) 0.04 Kcal/g
- (b) 0.4 kcal/g
- (d) 9 Kcal/g

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3.

Number of asymmetric carbon atoms in glucose is

- (a) 1
- (b) 2
- (c) 3
- (d) 4

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3.

Number of asymmetric carbon atoms in glucose is

- (a) 1
- (b) 2
- (c) 3
- (d) 4

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4.

Which one of the following acts like a fuel in driving the body

- (a) Water
- (b) Vitamin
- (c) Fats
- (d) Carbohydrates

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4.

Which one of the following acts like a fuel in driving the body

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- (b) Vitamin
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- (d) Carbohydrates

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5.

What is the major function of carbohydrates

- (a) Water circulation
- (b) Mineral transport
- (c) Storage of energy
- (d) All of these

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5.

What is the major function of carbohydrates

- (a) Water circulation
- (b) Mineral transport
- (c) Storage of energy
- (d) All of these

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6.

The percentage of total calories obtained from carbohydrates should be between

- (a) 10% to 20%
- (b) 50% to 60%
- (c) 20 to 30%
- (d) 5 to 10%

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6.

The percentage of total calories obtained from carbohydrates should be between

- (a) 10% to 20%
- (b) 50% to 60%
- (c) 20 to 30%
- (d) 5 to 10%

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7.

A monosaccharide is

- (a) Lactose
- (b) Sucrose
- (c) Ribose
- (d) Maltose

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7.

A monosaccharide is

- (a) Lactose
- (b) Sucrose
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8.

Galactose is a

- (a) Monosaccharide
- (b) Disaccharide
- (c) Polysaccharide
- (d) Sucrose

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8.

Galactose is a

- (a) Monosaccharide
- (b) Disaccharide
- (c) Polysaccharide
- (d) Sucrose

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9.

D-fructose on simple reduction gives

- (a) Only mannitol
- (b) Only sorbitol
- (c) Mixture of mannitol and sorbitol
- (d) L-fructose

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9.

D-fructose on simple reduction gives

- (a) Only mannitol
- (b) Only sorbitol
- (c) Mixture of mannitol and sorbitol
- (d) L-fructose

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10.

The preferred substrate for hexokinase and repairing ability is

- (a) Glucose
- (b) Fructose
- (c) Glucose and fructose are equally preferred
- (d) None of these

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10.

The preferred substrate for hexokinase and repairing ability is

- (a) Glucose
- (b) Fructose
- (c) Glucose and fructose are equally preferred
- (d) None of these

11.

The sugar found in milk is

- (a) Galactose
- (b) Glucose
- (c) Fructose
- (d) Sucrose

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11.

The sugar found in milk is

- (a) Galactose
- (b) Glucose
- (c) Fructose
- (d) Sucrose

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12.

Which one of the following is known as "Milk Sugar

- (a) Starch
- (b) Sucrose
- (c) Maltose
- (d) Lactose

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12.

Which one of the following is known as "Milk Sugar"

- (a) Starch
- (b) Sucrose
- (c) Maltose
- (d) Lactose

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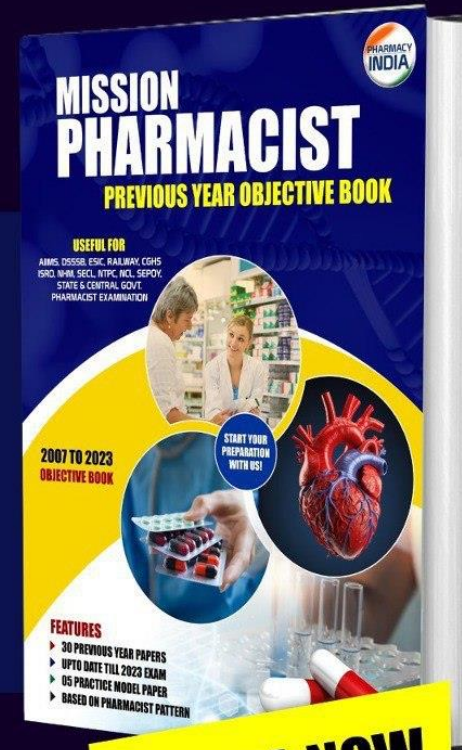
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13.

Pentose sugar gives which test positive

- (a) Inversion test
- (b) Mucic acid test
- (c) Full saturation test
- (d) Bial's test

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13.

Pentose sugar gives which test positive

- (a) Inversion test
- (b) Mucic acid test
- (c) Full saturation test
- (d) Bial's test

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14.

Pentoses and hexoses can be distinguished by one of the following tests

- (a) Bial's test
- (b) Molisch test
- (c) Seliwanoff's test
- (d) Benzidine test

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14.

Pentoses and hexoses can be distinguished by one of the following tests

- (a) Bial's test
- (b) Molisch test
- (c) Seliwanoff's test
- (d) Benzidine test

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15.

Mark the CORRECT statement

- (a) Lactose is a non-reducing disaccharide
- (b) Sucrose is a reducing sugar
- (c) Maltose is called Invert sugar
- (d) Maltose is a reducing disaccharide

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15.

Mark the CORRECT statement

- (a) Lactose is a non-reducing disaccharide
- (b) Sucrose is a reducing sugar
- (c) Maltose is called Invert sugar
- (d) Maltose is a reducing disaccharide

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16.

Which among the following is a Non-Reducing sugar

- (a) Sucrose
- (b) Glucose
- (c) Maltose
- (d) Lactose

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16.

Which among the following is a Non-Reducing sugar

- (a) Sucrose
- (b) Glucose
- (c) Maltose
- (d) Lactose

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17.

Sucrose is the disaccharide which is made up of

- (a) Alpha D glucose and beta D fructose
- (b) Alpha D glucose and beta D galactose
- (c) Alpha D glucose and beta D glucose
- (d) Beta D glucose and alpha D fructose

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17.

Sucrose is the disaccharide which is made up of

- (a) Alpha D glucose and beta D fructose
- (b) Alpha D glucose and beta D galactose
- (c) Alpha D glucose and beta D glucose
- (d) Beta D glucose and alpha D fructose

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18.

Sucrose is a

- (a) Hexose
- (b) Monosaccharides
- (c) Disaccharides
- (d) Polysaccharides

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18.

Sucrose is a

- (a) Hexose
- (b) Monosaccharides
- (c) Disaccharides
- (d) Polysaccharides

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19.

Chemically cane sugar is

- (a) Lactose
- (b) Glucose
- (c) Sucrose
- (d) Starch

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19.

Chemically cane sugar is

- (a) Lactose
- (b) Glucose
- (c) Sucrose
- (d) Starch

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20.

What is Inverted sugar

- (a) Hydrolytic product of sucrose
- (b) Galactose
- (c) Fructose
- (d) Mannose

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20.

What is Inverted sugar

- (a) Hydrolytic product of sucrose
- (b) Galactose
- (c) Fructose
- (d) Mannose

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21.

Sucrose on prolonged heating with calcium hydroxide solution under pressure yield

- (a) Gluconic acid
- (b) Lactic acid
- (c) Tartaric acid
- (d) Saccharic acid

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21.

Sucrose on prolonged heating with calcium hydroxide solution under pressure yield

- (a) Gluconic acid
- (b) Lactic acid
- (c) Tartaric acid
- (d) Saccharic acid

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22.

Lactose is made up of

- (a) One glucose molecule and one galactose molecule
- (b) Two glucose molecules
- (c) One glucose and one fructose molecule
- (d) Two galactose molecules

22.

Lactose is made up of

- (a) One glucose molecule and one galactose molecule
- (b) Two glucose molecules
- (c) One glucose and one fructose molecule
- (d) Two galactose molecules

23.

Agar is

- (a) Penta polysaccharide
- (b) Oligo polysaccharide
- (c) Homopolysaccharide
- (d) Heteropolysaccharide

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23. Agar is

- (a) Penta polysaccharide
- (b) Oligo polysaccharide
- (c) Homopolysaccharide
- (d) Heteropolysaccharide

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24.

The polysaccharide employed for assessment of kidney function is

- (a) Creatinine
- (b) Insulin
- (c) Inulin
- (d) Galactose

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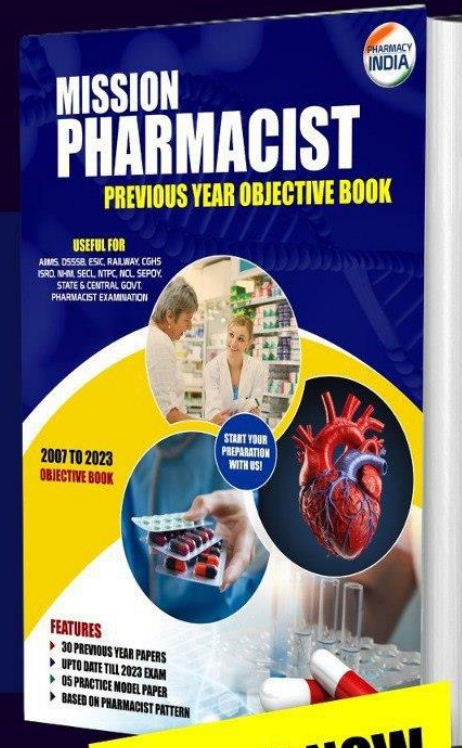
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24.

The polysaccharide employed for assessment of kidney function is

- (a) Creatinine
- (b) Insulin
- (c) Inulin
- (d) Galactose

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25. Reagent used for the identification of cellulose

- (a) Van Urk's reagent
- (b) Zeisel reagent
- (c) Dragendorff's reagent
- (d) Fehling's reagent

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25. Reagent used for the identification of cellulose

- (a) Van Urk's reagent
- (b) Zeisel reagent**
- (c) Dragendorff's reagent
- (d) Fehling's reagent

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26.

Glycogen is present in all body tissue EXCEPT

- (a) Liver
- (b) Brain
- (c) Kidney
- (d) Muscle

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26.

Glycogen is present in all body tissue EXCEPT

- (a) Liver
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- (d) Muscle

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27.

The usual source of heparin

- (a) Blood
- (b) Fish
- (c) Tissues of domestic mammals
- (d) Plants

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27.

The usual source of heparin

- (a) Blood
- (b) Fish
- (c) Tissues of domestic mammals
- (d) Plants

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28. Which of the following is a mucopolysaccharide

- (a) Cellulose
- (b) D- glucuronic acid
- (c) Hyaluronic acid
- (d) Glycogen

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28. Which of the following is a mucopolysaccharide

- (a) Cellulose
- (b) D- glucuronic acid
- (c) Hyaluronic acid
- (d) Glycogen

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29.

Which of the following is a Heteroglycan

- (a) Cellulose
- (b) Starch
- (c) Glycogen
- (d) Hyaluronic acid

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29.

Which of the following is a Heteroglycan

- (a) Cellulose
- (b) Starch
- (c) Glycogen
- (d) Hyaluronic acid

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30.

Other name of regenerated cellulose

- (a) Wool
- (b) Hemp
- (c) Silk
- (d) Rayon

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30.

Other name of regenerated cellulose

- (a) Wool
- (b) Hemp
- (c) Silk
- (d) Rayon

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31.

Glycogen is a

- (a) Vitamin
- (b) Polysaccharide
- (c) Protein
- (d) Nucleic acid

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31.

Glycogen is a

- (a) Vitamin
- (b) Polysaccharide
- (c) Protein
- (d) Nucleic acid

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32.

Enzyme referred as spreading factor

- (a) Heparin
- (b) Chondroitin
- (c) Hyaluronidase
- (d) Iduronic acid

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32.

Enzyme referred as spreading factor

- (a) Heparin
- (b) Chondroitin
- (c) Hyaluronidase
- (d) Iduronic acid

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33.

The principal site of glucose production in the human body is the

- (a) Blood
- (b) Pituitary gland
- (c) Muscle tissue
- (d) Liver

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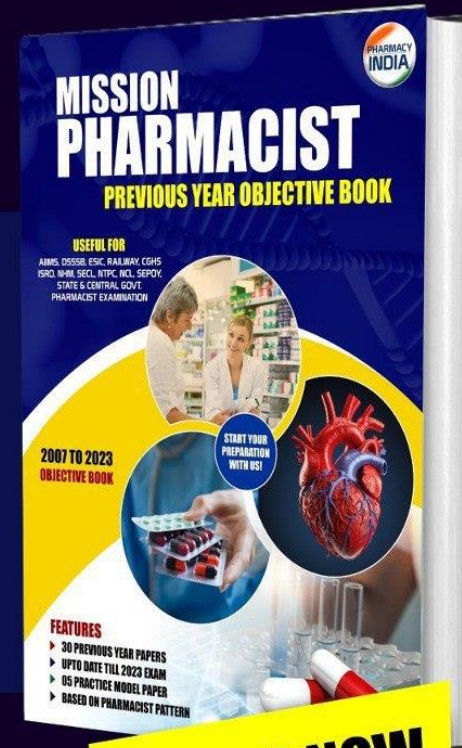
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33.

The principal site of glucose production in the human body is the

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34.

The breakdown of glucose to pyruvic acid is called

- (a) Glycolysis
- (b) Glucogenesis
- (c) Glycogenolysis
- (d) TCA cycle

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34.

The breakdown of glucose to pyruvic acid is called

- (a) Glycolysis
- (b) Glucogenesis
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- (d) TCA cycle

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35.

The only significant enzymopathy Embden-Meyerhof glycolytic pathway is of

- (a) Carboxypeptidase
- (b) Elastase
- (c) Aminopeptidase
- (d) Pyruvate

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35.

The only significant enzymopathy Embden-Meyerhof glycolytic pathway is of

- (a) Carboxypeptidase
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- (c) Aminopeptidase
- (d) Pyruvate

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36.

Which one of the following is a rate limiting enzyme of glycolysis

- (a) Hexokinase
- (b) Phosphofructokinase
- (c) Pyruvate carboxylase
- (d) Pyruvate kinase

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36.

Which one of the following is a rate limiting enzyme of glycolysis

- (a) Hexokinase
- (b) Phosphofructokinase
- (c) Pyruvate carboxylase
- (d) Pyruvate kinase

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37.

Which of the following conversion requires involvement of an ATP

- (a) 2-Phosphoglycerate → Phosphoenolpyruvate
- (b) Glucose-6-phosphate → Fructose-6-phosphate
- (c) 3-Phosphoglycerate → 2 Phosphoglycerate
- (d) Fructose-6-phosphate → Fructose-1,6-bisphosphate

37.

Which of the following conversion requires involvement of an ATP

- (a) 2-Phosphoglycerate → Phosphoenolpyruvate
- (b) Glucose-6-phosphate → Fructose-6-phosphate
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- (d) Fructose-6-phosphate → Fructose-1,6-bisphosphate

38.

Enzyme responsible for conversion of glucose to glucose-6-phosphate

- (a) Glycogen synthase
- (b) G-6 phosphatase
- (c) Glucokinase
- (d) Phosphorylase

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38.

Enzyme responsible for conversion of glucose to glucose-6-phosphate

- (a) Glycogen synthase
- (b) G-6 phosphatase
- (c) Glucokinase**
- (d) Phosphorylase

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39.

Glucose can be synthesized from all of the following EXCEPT

- (a) Acetoacetate
- (b) Lactic acid
- (c) Glycerol
- (d) Amino acids

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39.

Glucose can be synthesized from all of the following EXCEPT

- (a) Acetoacetate
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- (c) Glycerol
- (d) Amino acids

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40.

All enzymes involved in glycolysis are present in

- (a) Mitochondria
- (d) Cell wall
- (c) Cytoplasm
- (b) Blood

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40.

All enzymes involved in glycolysis are present in

- (a) Mitochondria
- (d) Cell wall
- (c) Cytoplasm
- (b) Blood

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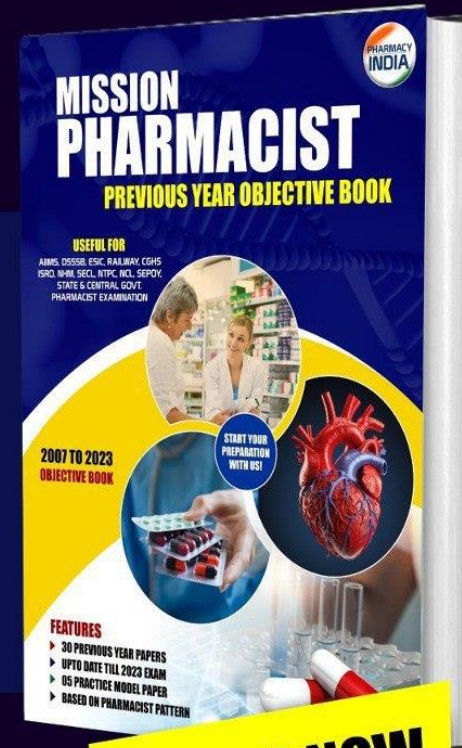
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