



RRB PHARMACIST

MODEL PAPER -6

2024

TIME:-
8:30 P.M

40 QUESTIONS

WITH DETAILED EXPLANATION

SUBJECT - BIOCHEMISTRY

TOPIC - PROTEINS

VIDEO DEKHNE KE LIYE BANNER PAR CLICK KARE

1.

Which of the following is NOT an amino acid

- ✓ (a) Alanine ✓
- ✓ (b) Glycerine ✗
- ✓ (c) Leucine ✓
- ✓ (d) Serine ✓

20

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1.

Which of the following is NOT an amino acid

(a) Alanine

(b) Glycerine

(c) Leucine

(d) Serine

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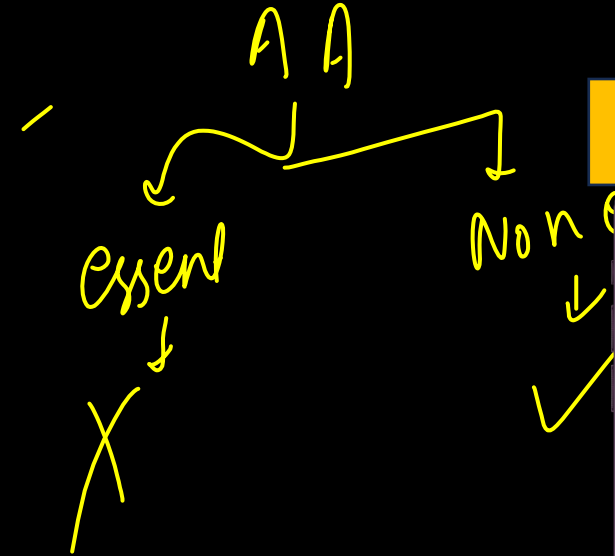
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2.

The amino acids that cannot be synthesized in the body and must be supplied in the diet are known as

PVT
+IM
HALL

- (a) Alicyclic compounds
- (b) Aliphatic compounds
- ✓ (c) Essential Amino acids
- (d) Aromatic amino acids



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2.

The amino acids that cannot be synthesized in the body and must be supplied in the diet are known as

- (a) Alicyclic compounds
- (b) Aliphatic compounds
- (c) Essential Amino acids**
- (d) Aromatic amino acids

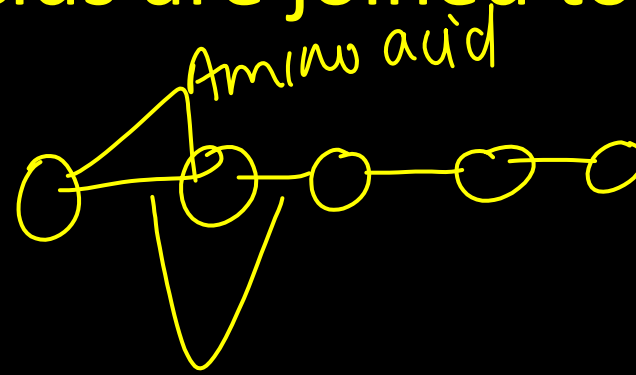
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3.

By which bond, amino acids are joined together

- (a) Amide
- (b) Hydrogen
- (c) Ionic
- (d) Dipole-Dipole



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3.

By which bond, amino acids are joined together

(a) Amide \rightarrow Peptide bond

(b) Hydrogen

(c) Ionic

(d) Dipole-Dipole

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4.

All are essential amino acid EXCEPT

(a) Leucine ✓

(b) Lysine ✓

(c) Phenylalanine ✓

(d) Tyrosine

RVOT

TIM

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Non-essential
A.A.

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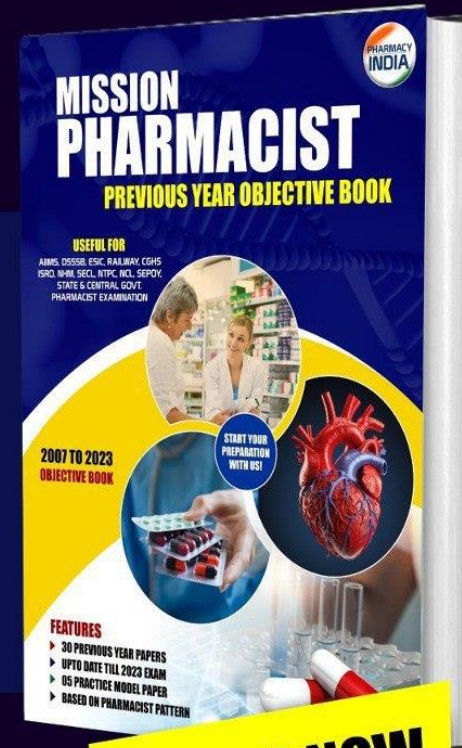
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4.

All are essential amino acid EXCEPT

- (a) Leucine
- (b) Lysine
- (c) Phenylalanine
- (d) Tyrosine**

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5.

Which group of amino acid is CORRECT in relation to essential amino acids

- ✓ (a) Isoleucine, methionine, valine, lysine
- (b) Isoleucine, serine, valine, phenylalanine, lysine
- (c) Phenylalanine, alanine, valine, lysine
- (d) Alanine, arginine, leucine, glutamine

5.

Which group of amino acid is CORRECT in relation to essential amino acids

(a) Isoleucine, methionine, valine, lysine

(b) Isoleucine, serine, valine, phenylalanine, lysine

(c) Phenylalanine, alanine, valine, lysine

(d) Alanine, arginine, leucine, glutamine

6.

Which of the following is NOT an essential amino acid

- (a) Valine
- (b) Lysine
- (c) Leucine
- (d) Serine

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6.

Which of the following is NOT an essential amino acid

- (a) Valine
- (b) Lysine
- (c) Leucine
- (d) Serine**

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7.

Which of the following is an essential amino acid

- (a) Alanine
- (b) Valine
- (c) Tyrosine
- (d) Proline

7.

Which of the following is an essential amino acid

(a) Alanine

(b) Valine

(c) Tyrosine

(d) Proline

*Non-essential
Amino acid*



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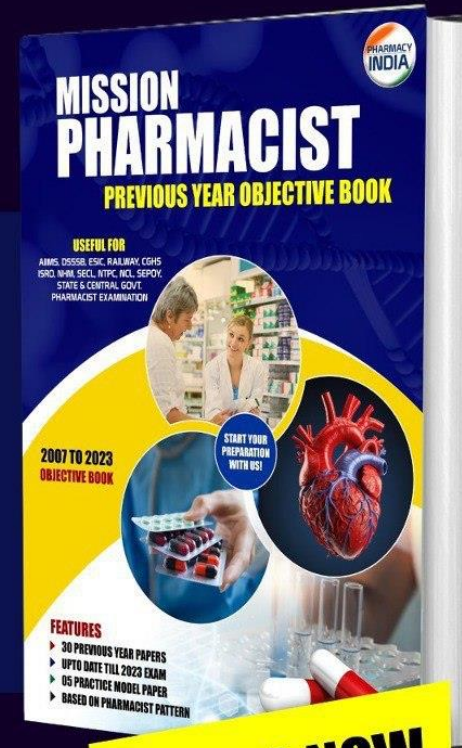
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8.

The amino acid that is an important precursor of haemoglobin is

- (a) Alanine
- (b) Glycine
- (c) Protein
- (d) Isoleucine

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8.

The amino acid that is an important precursor of haemoglobin is

(a) Alanine

(b) Glycine ✓

(c) Protein

(d) Isoleucine

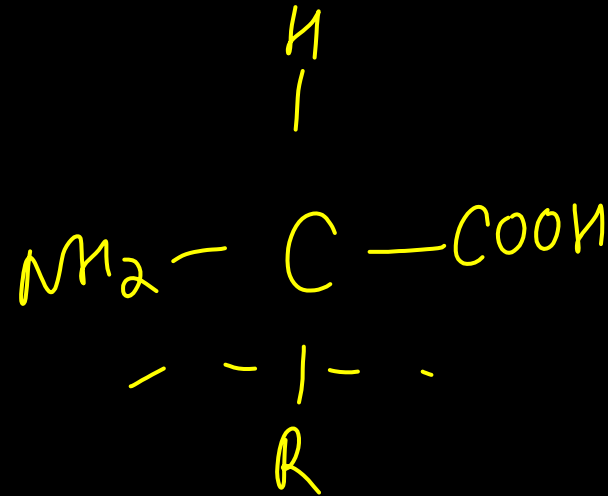
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9.

Which of the following is a sulphur- containing amino acid

- (a) Arginine
- (b) Cysteine
- (c) Proline
- (d) Asparagine



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9.

Which of the following is a sulphur- containing amino acid

(a) Arginine

✓ (b) Cysteine

(c) Proline

(d) Asparagine

10.

Example of an aliphatic amino acid

- (a) Cysteine
- (b) Glycine
- (c) Phenylalanine
- (d) Arginine

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10.

Example of an aliphatic amino acid

(a) Cysteine

(b) Glycine

(c) Phenylalanine

(d) Arginine

→ *Aliphatic Amino acid*

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11.

The cofactor of Glycogen phosphorylase is

- (a) TPP
- (b) PLP
- ✓ (c) NADH
- ✓ (d) CoA

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11.

The cofactor of Glycogen phosphorylase is

(a) TPP

(b) **PLP**

(c) NADH -

(d) CoA -

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12.

. A sulphur-containing amino acid is

- (a) Methionine
- (b) Ornithine
- (c) Glutamine
- (d) Asparagine

→ Cysteine
→ Methionine.

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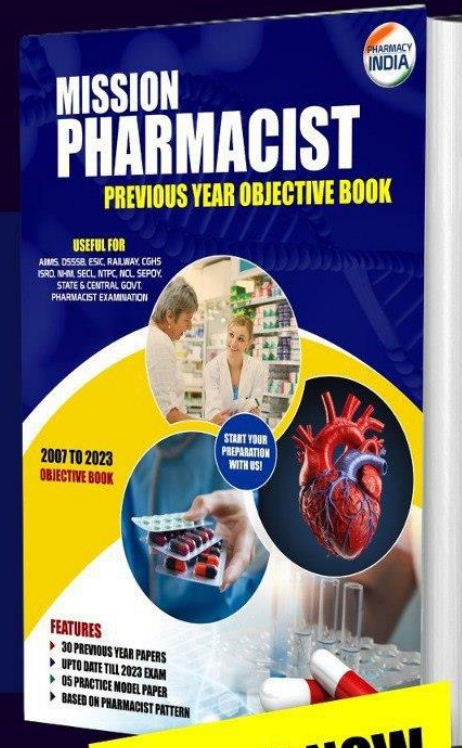
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12.

. A sulphur-containing amino acid is

- ✓ (a) Methionine
- (b) Ornithine
- (c) Glutamine
- (d) Asparagine

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13.

Which among the following is an amide containing amino acid

- (a) Leucine
- (b) Serine
- (c) Asparagine
- (d) Cysteine

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13.

Which among the following is an amide containing amino acid

(a) Leucine

(b) Serine

(c) Asparagine ✓

(d) Cysteine

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14.

. The specific test for identifying imidazole ring in amino acids is

- (a) Pauly's test
- (b) Biuret test
- (c) Millon's test
- (d) Folin's test

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14.

. The specific test for identifying imidazole ring in amino acids is

(a) Pauly's test ✓

(b) Biuret test

(c) Millon's test

(d) Folin's test

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15.

Haem synthesis starts with condensation of glycine with

- (a) α -ketoglutarate
- (b) Citryl-CoA
- (c) Succinyl-CoA
- (d) Malate.

Haem
↓
glycine + Succinyl-CoA

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15.

Haem synthesis starts with condensation of glycine with

(a) α -ketoglutarate

(b) Citryl-CoA

(c) Succinyl-CoA ✓✓

(d) Malate.

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16.

. Which of the following is an example of Aromatic amino acids

- (a) Asparagine
- (b) Threonine
- (c) Glutamine
- (d) Tyrosine

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16.

. Which of the following is an example of Aromatic amino acids

- (a) Asparagine
- (b) Threonine
- (c) Glutamine
- (d) Tyrosine**

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17.

. For the determination of amino acids, which sequence of a protein is used

- (a) Sanger reagent
- (b) Biuret reagent
- (c) Ninhydrin reagent
- (d) Millon's reagent

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17.

. For the determination of amino acids, which sequence of a protein is used

(a) Sanger reagent ✓

(b) Biuret reagent

(c) Ninhydrin reagent

(d) Millon's reagent

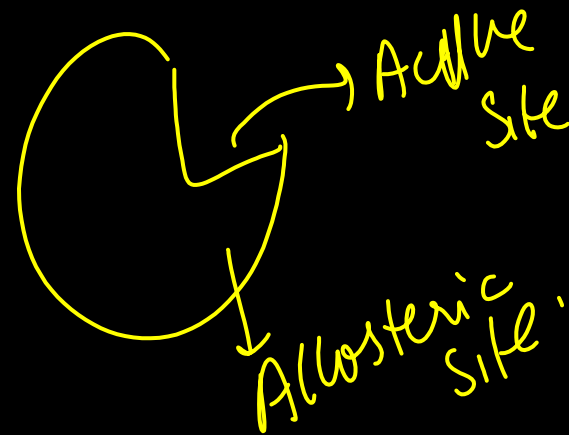
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18.

The most frequently found amino acid at the active site of enzyme is

- (a) Serine
- (b) Valine
- (c) Isoleucine
- (d) Leucine



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18.

. The most frequently found amino acid at the active site is

- (a) Serine ✓
- (b) Valine
- (c) Isoleucine
- (d) Leucine

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19.

. Which of the following amino acids is NOT involved in the biosynthesis of creatinine

- (a) Glycine
- (b) Arginine
- (c) Methionine
- (d) Isoleucine

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19.

Which of the following amino acids is NOT involved in the biosynthesis of creatinine

(a) Glycine ✓

(b) Arginine ✓

(c) Methionine ✓

(d) Isoleucine ✓

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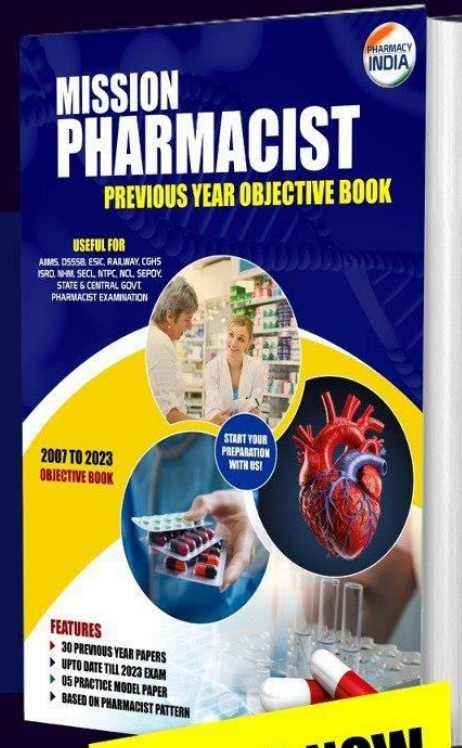
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20.

. An amino acid considered as a lipotropic factor is

- (a) Methionine
- (b) Histidine
- (c) Tryptophan
- (d) Serine

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20.

. An amino acid considered as a lipotropic factor is

(a) Methionine ✓✓

(b) Histidine

(c) Tryptophan

(d) Serine

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21.

. Which of the following amino acids is degraded finally to Succinyl CoA

- (a) Asparagine
- (b) Proline
- (c) Methionine
- (d) Arginine

↓
Succinyl CoA

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21.

. Which of the following amino acids is degraded finally to Succinyl CoA

(a) Asparagine

(b) Proline

✓ (c) Methionine

(d) Arginine

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22.

. Which of following is an essential amino acid

- (a) Phenylalanine
- (b) Tyrosine
- (c) Alanine
- (d) Serine

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22.

. Which of following is an essential amino acid

(a) Phenylalanine ✓ →

(b) Tyrosine

(c) Alanine

(d) Serine

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23.

. Amino acid present in high concentration in brain tissues

- (a) Glutamic acid
- (b) Lysine
- (c) Arginine
- (d) Proline

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23.

Amino acid present in high concentration in brain tissues

~~(a)~~ Glutamic acid

(b) Lysine

(c) Arginine

(d) Proline

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Colour pigment → Skin, Hair, Eye.

24.

Melanin is derived from which of the following amino acid?

- a) Valine
- b) Tryptophan
- c) Histidine
- d) Tyrosine

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24.

Melanin is derived from which of the following amino acid?

- a) Valine
- b) Tryptophan
- c) Histidine
- ✓* d) Tyrosine

Tyrosine is the precursor of melanin

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25.

. Which of the following amino acids are both ketogenic and glucogenic?

- a) Leucine
- b) Alanine
- c) Aspartic acid
- d) Isoleucine

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25.

. Which of the following amino acids are both ketogenic and glucogenic?

- a) Leucine
- b) Alanine
- c) Aspartic acid
- d) Isoleucine ✓✓

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26.

. The most abundant plasma protein present in the body is

- (a) Fibrinogen
- (b) Globulin
- (c) Albumin
- (d) Plasminogen salmonella

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26.

The most abundant plasma protein present in the body is

- ✓ (a) Fibrinogen
- ✓ (b) Globulin
- ✓ (c) **Albumin**
- (d) Plasminogen salmonella

→ Plasma Protein Synthesis by liver.

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27.

. Which one of the following amino acids is the most effective contributor of protein buffer

- (a) Alanine
- (b) Glycine
- (c) Histidine
- (d) Arginine

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27.

. Which one of the following amino acids is the most effective contributor of protein buffer

(a) Alanine

(b) Glycine

(c) Histidine ✓✓

(d) Arginine

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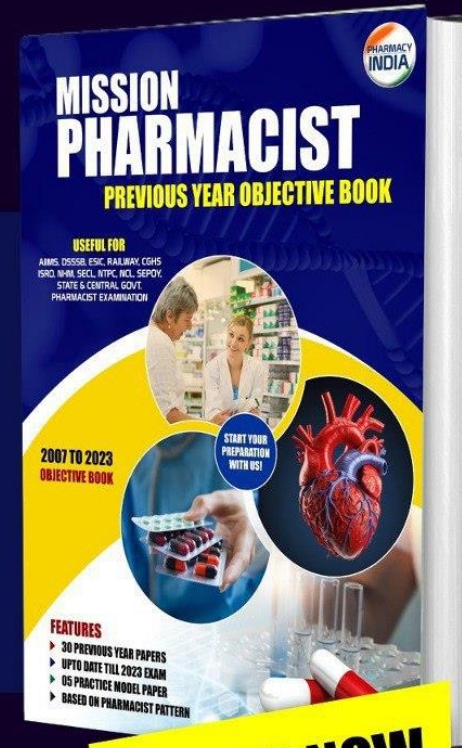
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28.

. Blood Group Antigen belong which of the following class of proteins

- (a) Lipoproteins
- (b) Chromoproteins
- (c) Nucleoproteins
- (d) Glycoproteins

Antigen

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28.

. Blood Group Antigen belong which of the following class of proteins

- (a) Lipoproteins
- (b) Chromoproteins
- (c) Nucleoproteins
- (d) Glycoproteins** ✓

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29.

Keratin is found in

(a) Hair

(b) Skin

(c) Teeth

(d) Blood.

→ structural protein

→ Nails

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29.

Keratin is found in

- (a) Hair
- (b) Skin
- (c) Teeth
- (d) Blood.

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30.

. Casein is an example of

- (a) Nucleoproteins
- (b) Phosphoproteins
- (c) Chromoproteins
- (d) Lipoproteins

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30.

. Casein is an example of

(a) Nucleoproteins

(b) Phosphoproteins ✓

(c) Chromoproteins

(d) Lipoproteins

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31.

. Gelatin is a

- (a) Carbohydrate
- (b) Protein
- (c) Fat
- (d) Alkaloid

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31.

. Gelatin is a

(a) Carbohydrate

(b) Protein ✓

(c) Fat

(d) Alkaloid

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32.

Role of tyrosine in body is

- (a) Use by brain to produce norepinephrine
- (b) Helps alleviate insomnia
- (c) Production of hormones for immunity
- (d) Transmit nerve impulses.

32.

Role of tyrosine in body is

✓ (a) Use by brain to produce norepinephrine

(b) Helps alleviate insomnia

(c) Production of hormones for immunity

(d) Transmit nerve impulses.

↓
Neurotransmitter

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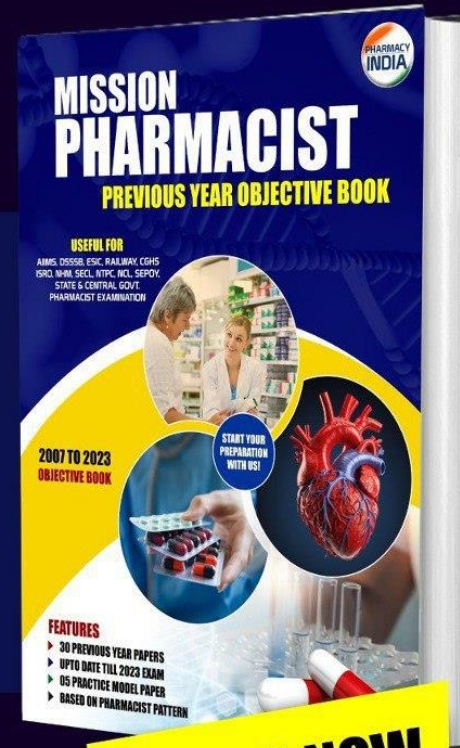
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33.

. The metabolic catabolism is called disorder of tryptophan

- (a) Hartnup disease
- (b) Hyperammonemia
- (c) Hypervalinemia
- (d) Alkaptonuria

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33.

. The metabolic catabolism is called disorder of tryptophan

- (a) Hartnup disease ✓
- (b) Hyperammonemia
- (c) Hypervalinemia
- (d) Alkaptonuria

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34.

. At isoelectric pH, an amino acid will exist as

- (a) Anion
- (b) Cation
- (c) Zwitter ion
- (d) None of these

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34.

. At isoelectric pH, an amino acid will exist as

- (a) Anion
- (b) Cation
- (c) Zwitter ion**
- (d) None of these

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35.

. At acidic pH, the amino acid is

- (a) In anionic form
- (b) In cationic form
- (c) In Zwitterion
- (d) In salt form

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35.

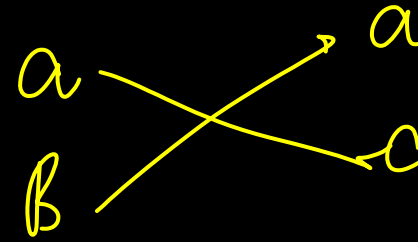
. At acidic pH, the amino acid is

(a) In anionic form

✓ (b) In cationic form

(c) In Zwitterion

(d) In salt form



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36.

. Catabolism of serine takes place after getting converted to

- (a) Proline
- (b) Alanine
- (c) Cysteine
- (d) Tyrosine

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36.

. Catabolism of serine takes place after getting converted to

(a) Proline

(b) Alanine

(c) Cysteine

(d) Tyrosine

Catabolism

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37.

. Insulin is composed of total

- (a) 51 amino acids
- (b) 30 amino acids
- (c) 21 amino acids
- (d) 81 amino acids

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37.

. Insulin is composed of total

(a) 51 amino acids

(b) 30 amino acids

(c) 21 amino acids

(d) 81 amino acids

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38.

.Which of the following is NOT a waste product of protein metabolism

- (a) Ammonia
- (b) Creatinine
- (c) Uric acid
- (d) Urea

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38.

.Which of the following is NOT a waste product of protein metabolism

- (a) Ammonia
- (b) Creatinine
- (c) Uric acid**
- (d) Urea

Side Product -



Urea cycle / ornithine cycle

39.

Amino acids are the product of the digestion of

(a) Protein ✓

(b) Fat

→ fatty acid + glycerol

(c) Vitamin

→

(d) Carbohydrate

→ monosaccharides.

39.

Amino acids are the product of the digestion of

- (a) Protein
- (b) Fat
- (c) Vitamin
- (d) Carbohydrate

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40.

Synthesis of urea takes place exclusively in

- (a) Kidney
- (b) Liver
- (c) Urinary bladder
- (d) Pancreas

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40.

Synthesis of urea takes place exclusively in

- (a) Kidney
- (b) Liver**
- (c) Urinary bladder
- (d) Pancreas



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