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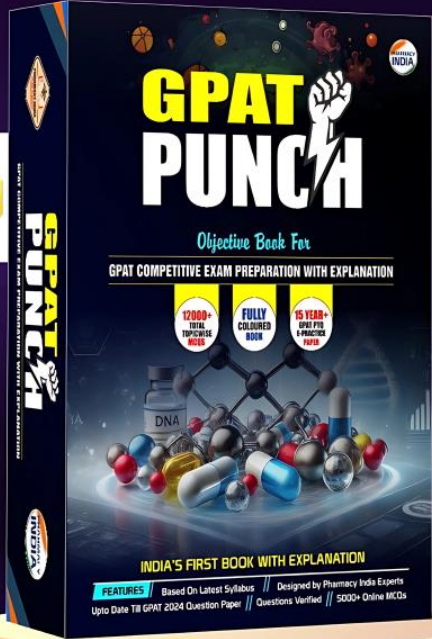
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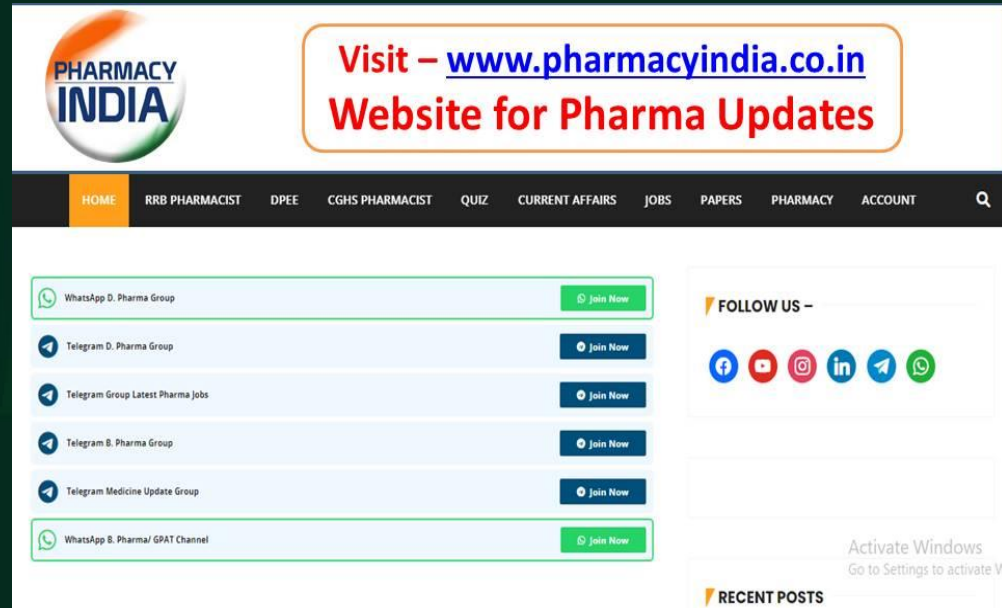
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1.

Rancidity of oil is detected by: [GPAT-2024]

- (a) Peroxide value**
- (b) Iodine value**
- (c) Acid value**
- (d) Saponification value**

1.

Rancidity of oil is detected by: [GPAT-2024]

- (a) Peroxide value**
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Explanation:

Peroxide value

- One of the most widely used tests for **oxidative or rancidity**; peroxide value is a measure of the **concentration of peroxides** and **hydroperoxides** formed in the initial stages of lipid oxidation.
- **Milliequivalents of peroxide per kg of fat** are measured by **titration with iodide ion**. Peroxide values are not static and care must be taken in handling and testing samples.

- It is difficult to provide a specific guideline relating peroxide value to rancidity. **High peroxide values** are a **definite indication of a rancid fat**, but moderate values may be the result of depletion of peroxides after reaching high concentrations.

2.

Rancidity in the fixed oils generally show [GPAT-2022]

- (a) Higher Iodine value as compared to the standards**
- (b) Higher Acid value as compared to the standards**
- (c) Higher Peroxide value as compared to the standards**
- (d) Higher level of unsaponifiable matter**

2.

Rancidity in the fixed oils generally show [GPAT-2022]

- (a) Higher Iodine value as compared to the standards**
- (b) Higher Acid value as compared to the standards**
- (c) Higher Peroxide value as compared to the standards**
- (d) Higher level of unsaponifiable matter**

Explanation:

Acid value: It is the amount of free acid present in fat as measured by the milligrams of potassium hydroxide needed to neutralize it. This happens because the triglycerides in the oil break down into free fatty acids, which increase the acid value. As the glycerides in fat slowly acid value increases.

3.

A fixed oil when added to an equal volume of ethanol, clear liquid is obtained; on cooling at 0°C and on storage for three hours, the liquid remains clear such fixed oil is identified as [GPAT-2020]

- (a) Castor Oil**
- (b) Soyabean oil**
- (c) Neem oil**
- (d) Evening Primrose oil**

3.

A fixed oil when added to an equal volume of ethanol, clear liquid is obtained; on cooling at 0°C and on storage for three hours, the liquid remains clear such fixed oil is identified as [GPAT-2020]

(a) Castor Oil

(b) Soyabean oil

(c) Neem oil

(d) Evening Primrose oil

Explanation: IDENTIFICATION TEST FOR CASTER OIL

TEST	OBSERVATION	INFERENCE
Castor oil + petroleum ether	Completely soluble in petroleum ether	Castor oil is present
Castor oil + equal volume of alcohol	Clear liquid at cool at 0°C for (3 hours)	Castor oil is present

4.

Antiviral action of Neem is due to [GPAT-2019]

- (a) Kaempferol**
- (b) Melanin**
- (c) Nimbin**
- (d) Azadirachtin**

4.

Antiviral action of Neem is due to [GPAT-2019]

- (a) Kaempferol
- (b) Melanin
- (c) **Nimbin**
- (d) Azadirachtin

. Explanation:

NEEM

Chemical constituents

- It contains **glycerides** of **saturated** and **unsaturated** fatty acids.
- The main fatty acids are **oleic (50%)** and **stearic (20%)** acids.
- The oil contains **2.0 per cent** of **bitters**, which are sulphur containing compounds, **nimbidin**, **nimbin**, **nimbinin** and **nimbidol**.
- The unsaponifiable part contains **nimbosterol (0.03 per cent)**.

Uses

- Nimbin, nimbidin and related compounds possess anti-viral activity.
- As non-edible oil, it is used for soap making and for manufacture of oleic and stearic acids.
- It is indicated in the rheumatism and pesticide and in medicated soaps for skin diseases.
- It is also spermicidal.

5.

Determine the correctness or otherwise of the following Assertion [a] and the Reason [r] [GPAT-2011]

Assertion (A): Castor oil is soluble in alcohol and is used as purgative

Reason (R): The oil contains ricinoleic acid having a hydroxyl group at C-12 position which is responsible for its solubility in alcohol and its purgative action

5.

(a) Both (a) and (r) are true but (r) is NOT the correct reason for (a)

(b) (a) is true but (r) is NOT the correct reason for (a)

(c) Both (a) and (r) are true and (r) is the correct reason for (a)

(d) Both (a) and (r) are false

5.

(a) Both (a) and (r) are true but (r) is NOT the correct reason for (a)

(b) (a) is true but (r) is NOT the correct reason for (a)

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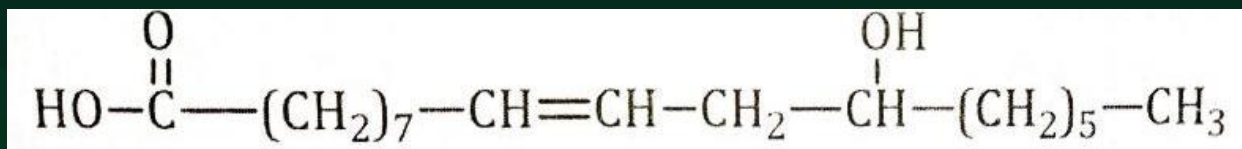
(d) Both (a) and (r) are false

• **Explanation:**

CASTOR OIL

- Castor oil is soluble in alcohol; miscible in chloroform, solvent ether, glacial acetic acid and petroleum ether.
- However, it is insoluble in mineral oil and immiscible in water.
- Castor oil chiefly consist of triglyceride of ricinoleic acid (80%) and other fatty acids such as iso-ricinoleic, linoleic, stearic and iso-stearic acid.

- The structure of ricinoleic acid is given below:



- The **laxative** and **purgative** activity of **castor** is due to **irritant** action of **ricinoleic acid**.
- The **hydroxyl group** at **C-12** position which is responsible its solubility in alcohol.

6.

Chemically fixed oils and fats are esters of

- (a) Glycerol
- (b) Ketone
- (c) Sugars
- (d) (d) None of the above

6.

Chemically fixed oils and fats are esters of

(a) Glycerol

(b) Ketone

(c) Sugars

(d) (d) None of the above

- **Explanation:**

- Fats and oils are esters of glycerol (three carbon trihydric alcohol) and various straight chained monocarboxylic acids, known as fatty acids. The fatty acids of natural fats have 4 - 24 carbon atoms (and any even number).
- These fatty acids may be saturated, monounsaturated, polyunsaturated or cyclic unsaturated. The cyclic unsaturated fatty acids are hydnocarpic, chaulmoogric and prostanoic.

7.

Trace the wrong statement regarding fixed oils and fats

(a) Fixed oils and fats are viscous and generally yellow-coloured liquids

(b) They cannot be distilled

(c) They are volatile and do not produce a permanent spot-on paper

(d) They can be saponified by alkalis

7.

Trace the wrong statement regarding fixed oils and fats

(a) Fixed oils and fats are viscous and generally yellow-coloured liquids

(b) They cannot be distilled

(c) They are volatile and do not produce a permanent spot-on paper

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• **Explanation:**

Properties of Fixed oil

1. **Fixed oils** are **thick, viscous, yellow-coloured** liquids with characteristic odour.
2. They are **non-volatile** and **cannot be distilled**.
3. They do have **food value** and can be saponified.
4. They turn **rancid** on storage due to free acidity.
5. Fixed oils and fats are **insoluble in water** and **ethyl alcohol**, but **soluble** in organic solvents like **chloroform; ether; petroleum-ether and benzene**.

8.

Which of the following statement about fixed oils is INCORRECT

- (a) Turn rancid on storage due to presence of free acid**
- (b) They are volatile and can be distilled**
- (c) Have food value and can be saponified**
- (d) None of the above**

8.

Which of the following statement about fixed oils is INCORRECT

- (a) Turn rancid on storage due to presence of free acid
- (b) They are volatile and can be distilled**
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5. Fixed oils and fats are **insoluble in water** and **ethyl alcohol**, but soluble in organic solvents like chloroform; ether; petroleum-ether and benzene.

9.

Give an example of cyclic unsaturated fatty acid

- (a) Hydnocarpic**
- (b) Chaulmoogric**
- (c) Prostanoic**
- (d) All of the above**

9.

Give an example of cyclic unsaturated fatty acid

- (a) Hydnocarpic
- (b) Chaulmoogric
- (c) Prostanoic
- (d) All of the above

- **Explanation:**

- 1. **Hydnocarpic Acid:**

- **Hydnocarpic acid** is a **cyclic unsaturated fatty acid** found in *Hydnocarpus* species, such as *Hydnocarpus wightiana* and *Hydnocarpus anthelmintica*.
- It has a **cyclopentenyl ring** with an **unsaturated hydrocarbon chain**, making it both cyclic and unsaturated.
- It is **used in the treatment of leprosy** due to its antimicrobial properties.

2. Chaulmoogric Acid:

- **Chaulmoogric acid** is another **cyclic unsaturated** fatty acid present in *Chaulmoogra* oil from *Hydnocarpus* species.
- It contains a **cyclopentenyl ring** with **unsaturation**, similar to hydnocarpic acid.
- This acid has been historically used in **leprosy treatment** due to its antibacterial effects against *Mycobacterium leprae*.

3. Prostanoic Acid:

- **Prostanoic acid** is the parent structure of **prostaglandins** and is **cyclic in nature**.
- It contains a **cyclopentane ring** with a **carboxylic acid** and **unsaturated alkyl chains**.
- It serves as a precursor to **prostaglandins**, which play roles in inflammation, blood clotting, and vasodilation.

An unsaturated fatty acid is a type of **fatty acid that contains one or more double bonds between the carbon atoms** in its carbon chain.

10.

Biological source of castor oil is

(a) Obtained from the seeds of Ricinus Communis,

Family: -Euphorbiaceae

(b) Obtained from the seeds of Linum

Usitatissimum, Family: -Euphorbiaceae

(c) Obtained from the seeds of Ricinus Communis,

Family: - Linaceae

(d) Obtained from the seeds of Arachis hypogea,

Family: - Linaceae

10.

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Usitatissimum, Family: -Euphorbiaceae

(c) Obtained from the seeds of Ricinus Communis,

Family: - Linaceae

(d) Obtained from the seeds of Arachis hypogea,

Family: - Linaceae

• Explanation:

Plants	Sources	Chemical Constituents	Uses
Castor oil	Obtained from the seeds of <i>Ricinus communis</i> Family:- Euphorbiaceae	Ricinoleic acid	Cathartic, lubricant, Purgative

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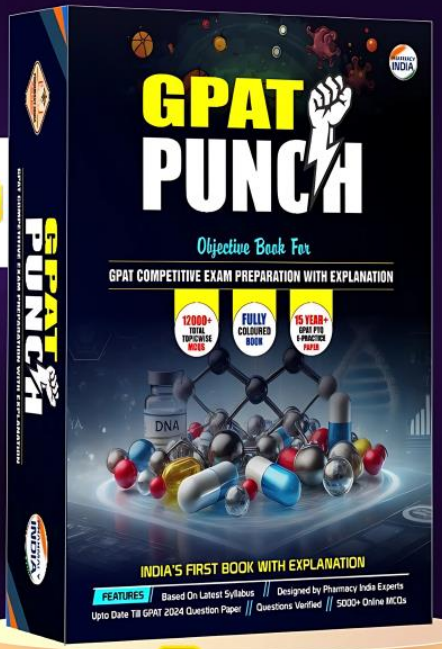
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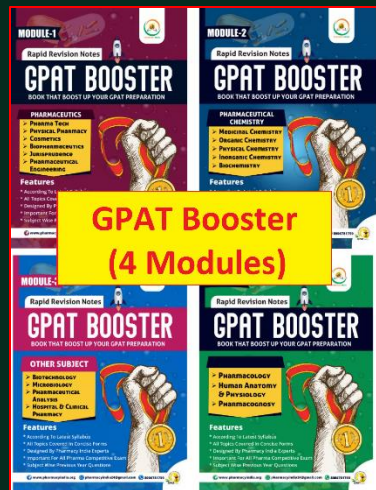
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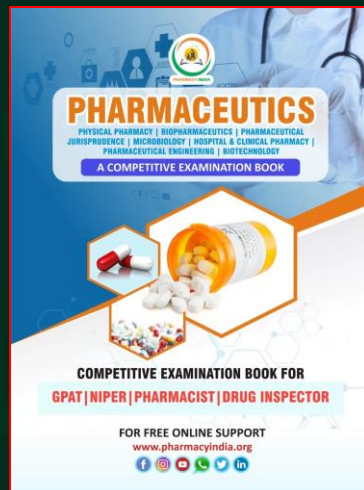
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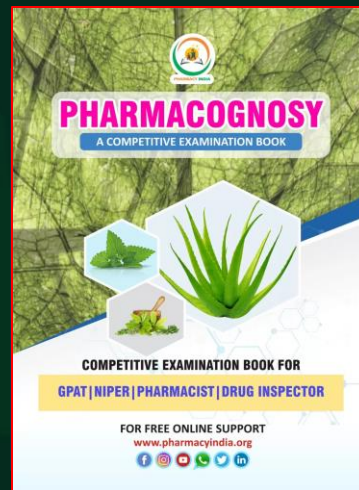
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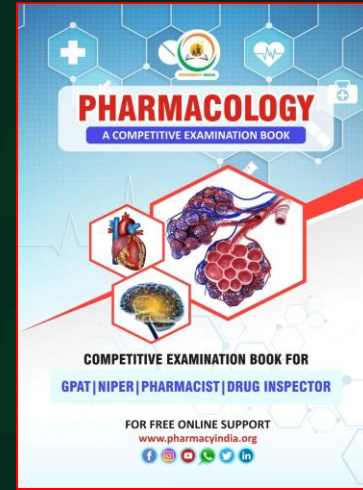
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11.

Castor oil is soluble in alcohol due to

- (a) Presence of fatty acids**
- (b) Presence of sulphadryl group**
- (c) Presence of hydroxyl group in Ricinoleic acid**
- (d) None of the above**

11.

Castor oil is soluble in alcohol due to

- (a) Presence of fatty acids
- (b) Presence of sulphadryl group
- (c) Presence of hydroxyl group in Ricinoleic acid**
- (d) None of the above

• **Explanation:**

Characteristics

- Medicinal or the **first grade or Pale pressed castor oil** is **colourless** or **slightly yellow** coloured. It is a viscid liquid which has slight odour with slightly acrid taste.
- Castor oil is soluble in absolute alcohol in all proportions; **Specific gravity** is **0.958 to 0.969**, **refractive index** at **40°C** is **1.4695 to 1.4730**, acid value not more than 2, **saponification** value **177 to 187**, and **acetyl** value is about 150.

12.

Cathartic property of castor oil is due to

- (a) Ricinoleic acid
- (b) Linoleic acid
- (c) Stearic acid
- (d) Sebacic acid

12.

Cathartic property of castor oil is due to

(a) Ricinoleic acid

(b) Linoleic acid

(c) Stearic acid

(d) Sebacic acid

• Explanation:

Plants	Sources	Chemical Constituents	Uses
Castor oil	Obtained from the seeds of <i>Ricinus communis</i> Family:- Euphorbiaceae	Ricinoleic acid	Cathartic, lubricant Purgative

13. Chaulmoogra oil is generally employed in

- (a) Hypertension**
- (b) Epilepsy**
- (c) Leprosy**
- (d) Diabetes**

13. Chaulmoogra oil is generally employed in

(a) Hypertension

(b) Epilepsy

(c) Leprosy

(d) Diabetes

. Explanation:

Plants	Sources	Chemical Constituents	Uses
Chaulmoogra oil (Hydnocarpus oil)	Obtained from fresh ripe seeds of Hydnocarpus kerziana, H. anthelmintica Family: Flacourtiaceae	hydnocarpic acid, chaulmoogric acid.	Tuberculosis, Leprosy

14.

Neem oil which is a non-edible fixed oil possess anti-viral activity due to presence of

- (a) Nimbin**
- (b) Nimbidin**
- (c) Azadirachtin**
- (d) Both (a) and (b)**

14.

Neem oil which is a non-edible fixed oil possess anti-viral activity due to presence of

(a) Nimbin

(b) Nimbidin

(c) Azadirachtin

(d) Both (a) and (b)

Explanation:

Neem oil (Margosa oil)	Obtained from fixed oil obtained from Azadiracta indica Family:- Meliaceae	Oleic acid, stearic acid Nimbin, nibidin	Cosmetic preparation, insect repellent, anti-viral activity
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15. Which of the following fixed oil is an example of drying oil

- (a) Linseed oil**
- (b) Olive oil**
- (c) Croton oil**
- (d) Kokum butter**

15. Which of the following fixed oil is an example of drying oil

(a) Linseed oil (flaxseed)

(b) Olive oil

(c) Croton oil

(d) Kokum butter

. Explanation:

Category	Examples
Fats	Cocoa butter, Kokum butter, Nutmeg butter, Coconut oil, Palm oil, Mango kernel oil
Non-drying oils	Olive oil, Peanut oil, Almond oil, Croton oil, Rice-bran oil
Semi-drying oils	Castor oil, Mustard oil, Sesame oil, Rapeseed oil, Cottonseed oil, Safflower oil
Drying oils	Linseed oil, Poppy seed oil, Hemp oil, Walnut oil

16. Baudouin's test is for

- (a) Strophanthus
- (b) Shatavari
- (c) Senna
- (d) Sesame oil

16. Baudouin's test is for

- (a) Strophanthus
- (b) Shatavari
- (c) Senna
- (d) Sesame oil**

. Explanation:

Sesame oil	Obtained from seeds of Sesamum indicum Family:- Pedaliaceae	Sesamin, sesamolin, oleic and linoleic acid	Nutritive laxative demulcent and emollient
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Identification: Badouin's test

Shake 2 ml sesame oil with 1 ml 1 per cent solution of sucrose in hydrochloric acid; a pink or red colour is produced due to sesamol.

17.

As per IP 1gm of shark liver oil should contain not less than

- (a) 1000 I.U of vitamin A**
- (b) 3000 I.U of vitamin A**
- (c) 4000 I.U of vitamin A**
- (d) 6000 I.U of vitamin A**

17.

As per IP 1gm of shark liver oil should contain not less than

- (a) 1000 I.U of vitamin A**
- (b) 3000 I.U of vitamin A**
- (c) 4000 I.U of vitamin A**
- (d) 6000 I.U of vitamin A**

Explanation:

Shark liver oil	Obtained from Fresh or carefully preserved livers s of the shark Hypoprion brevirostris	Vitamin A, saturated and unsaturate d fatty acids	Treatment of xerophthalmia, sunburn ointments
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The active principle of Shark liver oil is vitamin A which varies from 15,000 to 30,000 I.U. per g of the oil. It contains glycerides of saturated and unsaturated fatty acids.

18.

Cod liver oil is nutritive due to presence of

- (a) Vitamin A**
- (b) Vitamin A and D**
- (c) Vitamin A and E**
- (d) Vitamin E**

18.

Cod liver oil is nutritive due to presence of

(a) Vitamin A

(b) Vitamin A and D

(c) Vitamin A and E

(d) Vitamin E

. Explanation:

Cod liver oil	Obtained from Fresh liver of cod fish <i>Gadus morrhua</i> Family:- <i>Gadidae</i>	Vitamin A and D	Treatment of rickets
--------------------------	---	----------------------------	---------------------------------

19. Which of the following is a non-drying oil?

- A. Castor oil**
- B. Linseed oil**
- C. Chaulmoogra oil**
- D. Neem oil**

19. Which of the following is a non-drying oil?

A. Castor oil

B. Linseed oil

C. Chaulmoogra oil

D. Neem oil

. Explanation:

Category	Examples
Fats	Cocoa butter, Kokum butter, Nutmeg butter, Coconut oil, Palm oil, Mango kernel oil
Non-drying oils	Olive oil, Peanut oil, Almond oil, Croton oil, Rice-bran oil, castor oil
Semi-drying oils	Castor oil, Mustard oil, Sesame oil, Rapeseed oil, Cottonseed oil, Safflower oil
Drying oils	Linseed oil, Poppy seed oil, Hemp oil, Walnut oil

20.

The active constituent of Chaulmoogra oil is:

- A. Ricinoleic acid**
- B. Hydnocarpic acid**
- C. Oleic acid**
- D. Linoleic acid**

20.

The active constituent of Chaulmoogra oil is:

- A. Ricinoleic acid
- B. Hydnocarpic acid**
- C. Oleic acid
- D. Linoleic acid

. Explanation:

Plants	Sources	Chemical Constituents	Uses
Chaulmoogra oil (Hydnocarpus oil)	Obtained from fresh ripe seeds of Hydnocar puskerziiand, H. anthelmintica Family: Flacourtiaceae	hydnocarpic acid, chaulmoogric acid.	Tuberculosis, Leprosy

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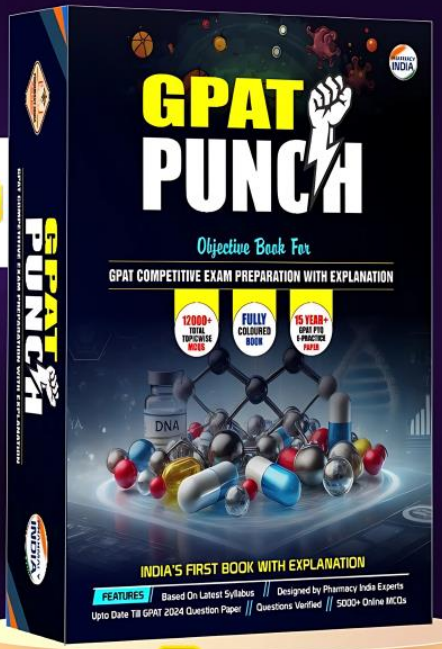
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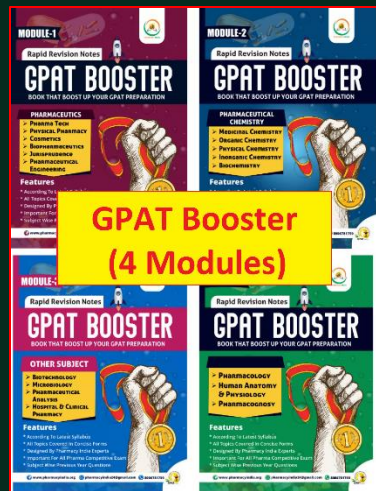
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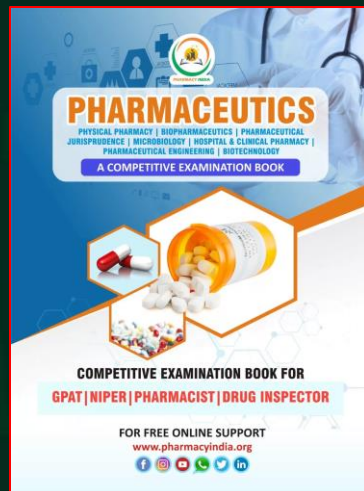
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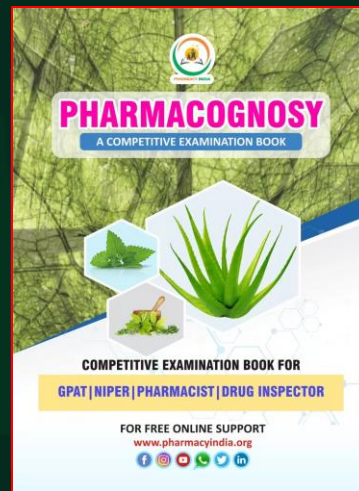
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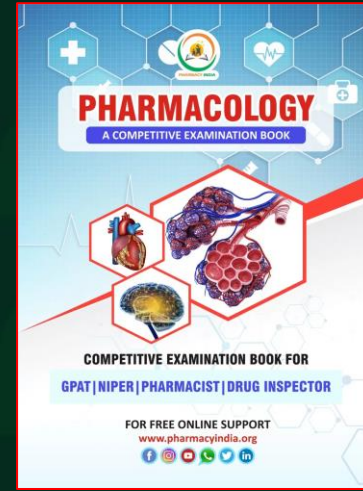
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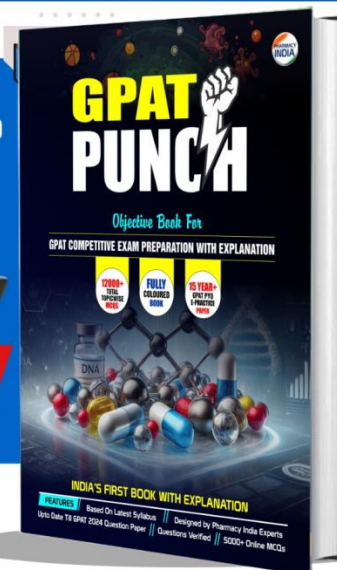


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21.

Cottonseed oil is classified as:

- A. Drying oil**
- B. Non-drying oil**
- C. Semi-drying oil**
- D. Essential oil**

21. Cottonseed oil is classified as:

- A. Drying oil
- B. Non-drying oil
- C. Semi-drying oil
- D. Essential oil

. Explanation:

Category	Examples
Fats	Cocoa butter, Kokum butter, Nutmeg butter, Coconut oil, Palm oil, Mango kernel oil
Non-drying oils	Olive oil, Peanut oil, Almond oil, Croton oil, Rice-bran oil
Semi-drying oils	Castor oil, Mustard oil, Sesame oil, Rapeseed oil, Cottonseed oil, Safflower oil, Soybean oil
Drying oils	Linseed oil, Poppy seed oil, Hemp oil, Walnut oil

22. Evening primrose oil is rich in which active constituent?

- A. Linoleic acid**
- B. Ricinoleic acid**
- C. γ -Linolenic acid**
- D. Palmitic acid**

22. Evening primrose oil is rich in which active constituent?

- A. Linoleic acid
- B. Ricinoleic acid
- C. γ -Linolenic acid
- D. Palmitic acid

. Explanation:

Plants	Sources	Chemical Constituents	Uses
Evening primrose oil	Oenothera biennis Family: Onagraceae	Gamma linoleic acid and linoleic acid	Nutritive and cosmetics

23.

Kokum butter is derived from which plant?

- A. *Garcinia indica***
- B. *Theobroma cacao***
- C. *Sesamum indicum***
- D. *Gossypium herbaceum***

23.

Kokum butter is derived from which plant?

A. *Garcinia indica*

B. *Theobroma cacao*

C. *Sesamum indicum*

D. *Gossypium herbaceum*

. Explanation:

Kokum butter	Obtained from seeds of Garcinia indica Family:- Guttiferae	Stearic and oleic acids stearic acid oleic acid	Pharmaceutical aid Nutritive laxative demulcent and emollient
---------------------	---	--	---

24. Linseed oil is a:

- A. Drying oil**
- B. Semi-drying oil**
- C. Non-drying oil**
- D. Essential oil**

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25. Which fatty acid is predominantly found in Sesame oil?

- A. Oleic acid**
- B. Linoleic acid**
- C. Palmitic acid**
- D. Ricinoleic acid**

25. Which fatty acid is predominantly found in Sesame oil?

A. Oleic acid

B. Linoleic acid

C. Palmitic acid

D. Ricinoleic acid

• **Explanation:**

Sesame oil	Obtained from seeds of Sesamum indicum Family:- Pedaliaceae	Sesamin, sesamolin, oleic and linoleic acid	Nutritive laxative demulcent and emollient
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**26. Alfa Alfa belongs to which of the following families:
[GPAT-2024]**

- (a) Acanthaceae
- (b) Convolvulaceae
- (c) Leguminosae
- (d) Liliaceae

**26. Alfa Alfa belongs to which of the following families:
[GPAT-2024]**

- (a) Acanthaceae
- (b) Convolvulaceae
- (c) Leguminosae**
- (d) Liliaceae

• **Explanation:**

Alfa Alfa (Medicago sativa) is a **leguminous** plant belonging to the **Leguminosae (Fabaceae)** family. It is widely cultivated for its **high protein** content and is used as a **forage crop (feed crop)** for livestock. Its ability to **fix atmospheric nitrogen** through **root nodules** makes it an essential crop in agriculture.

27.

Hemp and jute are

- (a) Animal fibres
- (b) Mineral fibres
- (c) Synthetic fibre
- (d) Plant fibres

27.

Hemp and jute are

- (a) Animal fibres
- (b) Mineral fibres
- (c) Synthetic fibre
- (d) Plant fibres**

. **Explanation:**

Based on the extracted text, here is the structured table:

Category	Examples
Plant fibres	Jute, flax, banana, cotton, hemp
Animal fibres	Silk, wool
Regenerated and Synthetic fibres	Rayon (Viscose): Made from wood pulp or cotton linters. Acetate: Made from cellulose acetate. Lyocell: from wood pulp. Nylon, Polyester, Acrylic, Spandex (synthetic)
- Fibres regenerated from carbohydrate materials	Alginate yarn, artificial silk or rayon, regenerated cellulose
- Fibres regenerated from protein materials	Aridil (from groundnut protein), Fibrolin (from milk casein)
- Synthetic	Nylon, terylene, orlon
Mineral fibres	Glass, asbestos

28. Raw cotton consists of

- (a) 62% of cellulose
- (b) 54% of cellulose
- (c) 25% of cellulose
- (d) 91% of cellulose

28. Raw cotton consists of

- (a) 62% of cellulose
- (b) 54% of cellulose
- (c) 25% of cellulose
- (d) 91% of cellulose**

Explanation:

Drugs	Important Characters
Cotton	➤ Synonyms: - Raw cotton, purified cotton, absorbent cotton. ➤ Biological Source: - Epidermal trichomes of the seeds of cultivated species of the <i>Gossypium</i> herbaceum and other species of <i>Gossypium</i> (<i>G. hirsutum</i>, <i>G. barbadense</i>) ➤ Family: - Malvaceae ➤ Chemical Constituents: - 90% of cellulose

29.

Purified absorbent cotton is almost a pure

- (a) Cellulose**
- (b) Sodium alginate**
- (c) Chitin**
- (d) Talc**

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30.

Cotton is soluble in

- (a) HCl**
- (b) Cold 80% sulphuric acid**
- (c) KOH**
- (d) Acetone**

30.

Cotton is soluble in

(a) HCl

(b) Cold 80% sulphuric acid

(c) KOH

(d) Acetone

• Explanation:

Chemical Tests

1. On ignition, **cotton burns** with a **flame**, gives **very little odour or fumes**, does not produce a bead, and leaves a small **white ash**; distinction from acetate rayon, alginate yarn, wool, silk, and nylon.
2. Dried cotton is moistened with **N/50 iodine** and **80% w/w sulphuric acid** is added. A **blue colour** is **produced**; distinction from acetate rayon, alginate yarn, jute, hemp, wool, silk, and nylon.

3. With ammoniacal copper oxide solution, raw cotton dissolves with ballooning, leaving a few fragments of cuticle. Absorbent cotton dissolves completely with uniform swelling, distinction from acetate rayon, jute, wool, and nylon.
4. In cold sulphuric acid (80% w/w) cotton dissolves; distinction from oxidized cellulose, jute, hemp, and wool.
5. In cold sulphuric acid (60% w/w) cotton, is insoluble; distinction from cellulose wadding and rayons.

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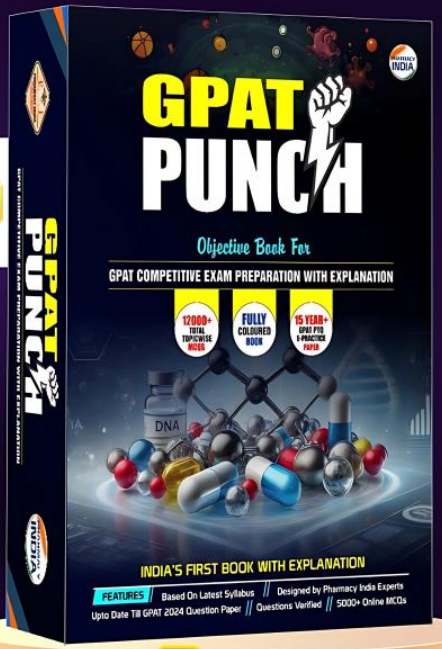
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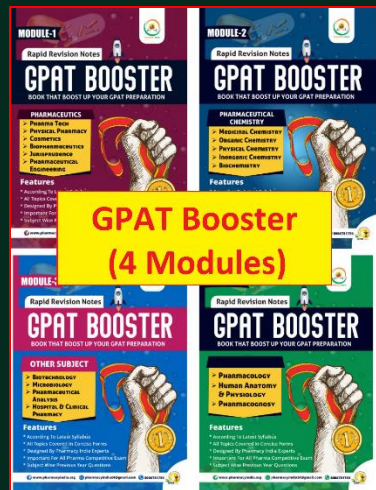
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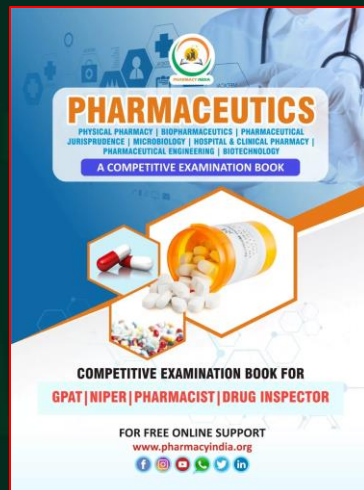
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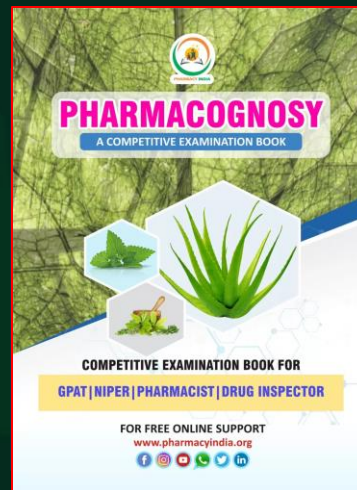
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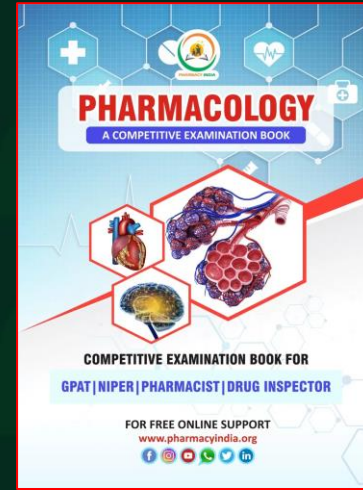
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31.

Flax consists of the pericyclic fibres of the stem of

- (a) Dioscorea Deltoidea**
- (b) Coccoloba Uvifera**
- (c) Ferula Foetida**
- (d) Linum Usitatissimum**

31.

Flax consists of the pericyclic fibres of the stem of

- (a) Dioscorea Deltoidea
- (b) Coccoloba Uvifera
- (c) Ferula Foetida
- (d) Linum Usitatissimum**

• Explanation:

Drugs	Important Characters
Flax	➤ Biological Source: - It is the pericyclic fibres which are removed from, the stem of <i>Linum usitatissimum</i> ➤ Family: - Linaceae ➤ Chemical Composition: - chiefly consists of pecto-cellulose.

32. Wool is soluble in

- (a) 5% aq. caustic alkali
- (b) Conc. hydrochloric acid
- (c) 66% Sulphuric acid
- (d) Cuoxam solution

32. Wool is soluble in

- (a) 5% aq. caustic alkali**
- (b) Conc. hydrochloric acid**
- (c) 66% Sulphuric acid**
- (d) Cuoxam solution**

- **Explanation:**

Chemical Tests

1. Solubility test: It is easily **soluble in warm alkali**.
2. Wool when treated with **Con. Hydrochloric acid**, it does not produce any effect but **dissolves silk**.
3. When treated with **cuoxam solution**, it does not dissolve but swells the wool and produces **blue colour**.
4. Solution of wool treated with **lead acetate produces black precipitate** due to **high sulphur content**.

- Wool is soluble in a dilute solution of caustic alkali (**such as sodium hydroxide**), which breaks down the protein structure of wool, causing it to dissolve.
- **Conc. hydrochloric acid:** Wool is not soluble in concentrated hydrochloric acid.
- **66% Sulphuric acid:** Sulphuric acid can damage wool but does not completely dissolve it.
- **Cuoxam solution:** This is a solution used for cellulose fibers, like cotton, not for wool.

33.

To the wool add Million's reagent. It colors the wool to brick red due to presence of

- (a) Moisture**
- (b) Starch**
- (c) Keratin**
- (d) None of the above**

33.

To the wool add Million's reagent. It colors the wool to brick red due to presence of

- (a) Moisture
- (b) Starch
- (c) Keratin**
- (d) None of the above

- **Explanation:**

- **Millon's reagent** is a chemical reagent that tests for the presence of **tyrosine**, an amino acid found in proteins.
- When **Millon's reagent** reacts with substances containing **tyrosine**, it produces a **brick red color**.
- **Wool** is primarily composed of **keratin**, which is a protein. **Keratin** contains **tyrosine residues**, which react with Millon's reagent to give the characteristic brick red coloration.

34.

To the boiling mixture of solution of lead acetate and caustic soda, wool is added. A black precipitate is formed due to the presence of

- (a) Cobalt**
- (b) Iron**
- (c) Carbon**
- (d) Sulphur**

34.

To the boiling mixture of solution of lead acetate and caustic soda, wool is added. A black precipitate is formed due to the presence of

- (a) Cobalt**
- (b) Iron**
- (c) Carbon**
- (d) Sulphur**

- **Explanation:**

- Wool is primarily composed of **keratin**, a protein that contains **sulphur** in the form of **disulfide bonds** (cysteine residues).
- When wool is added to a boiling mixture of **lead acetate** and **caustic soda**, a chemical reaction occurs:
 - The sulphur in wool reacts with **lead ions (Pb^{2+})** from lead acetate to form **lead sulfide (PbS)**, which is **black in color**.
- This reaction indicates the presence of **sulphur in the wool**.

35. Nylon is insoluble in

- (a) 5M Hydrochloric acid
- (b) Acetone
- (c) 90% Formic acid
- (d) 90% w/w phenol

35. Nylon is insoluble in

(a) 5M Hydrochloric acid

(b) Acetone

(c) 90% Formic acid

(d) 90% w/w phenol

- **Explanation:**
- **Nylon** is a **synthetic polymer** known for its **high strength** and resistance to many chemicals. Its solubility depends on the solvent's **ability to disrupt the hydrogen bonding between polymer chains**.
- **Acetone:**
 - Nylon is **insoluble in acetone**, as acetone lacks the necessary polar properties to break the strong hydrogen bonds between nylon's polymer chains.
 - **Acetone is an organic solvent** but is not effective for dissolving polyamides like nylon.



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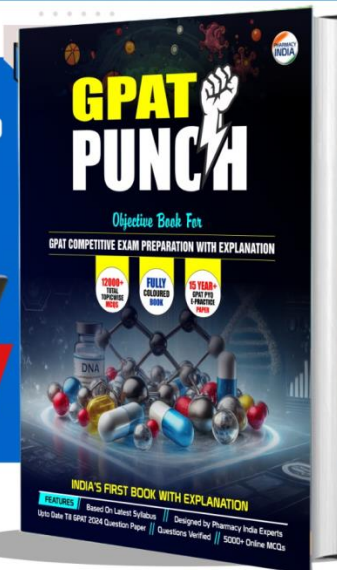


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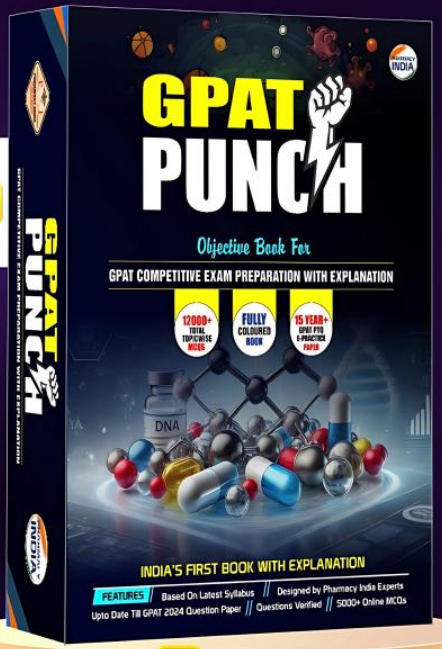
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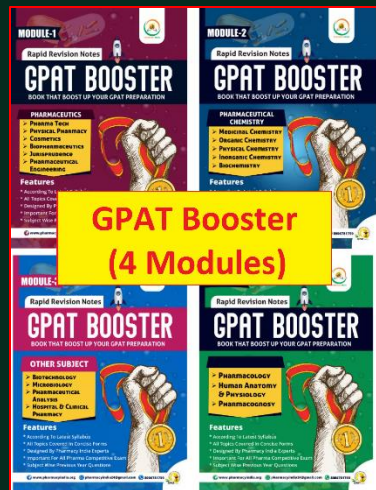
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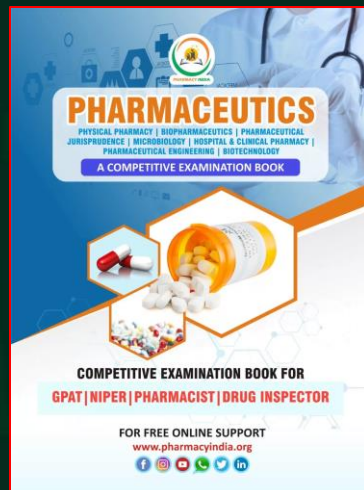
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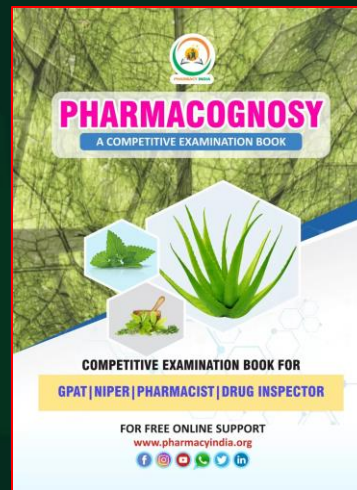
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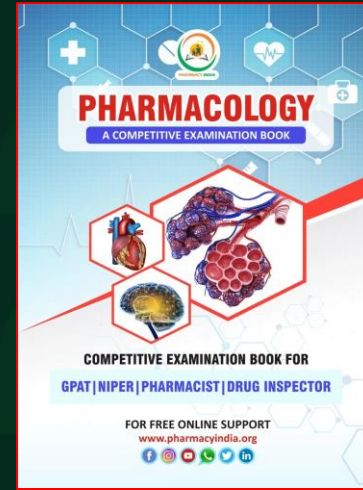
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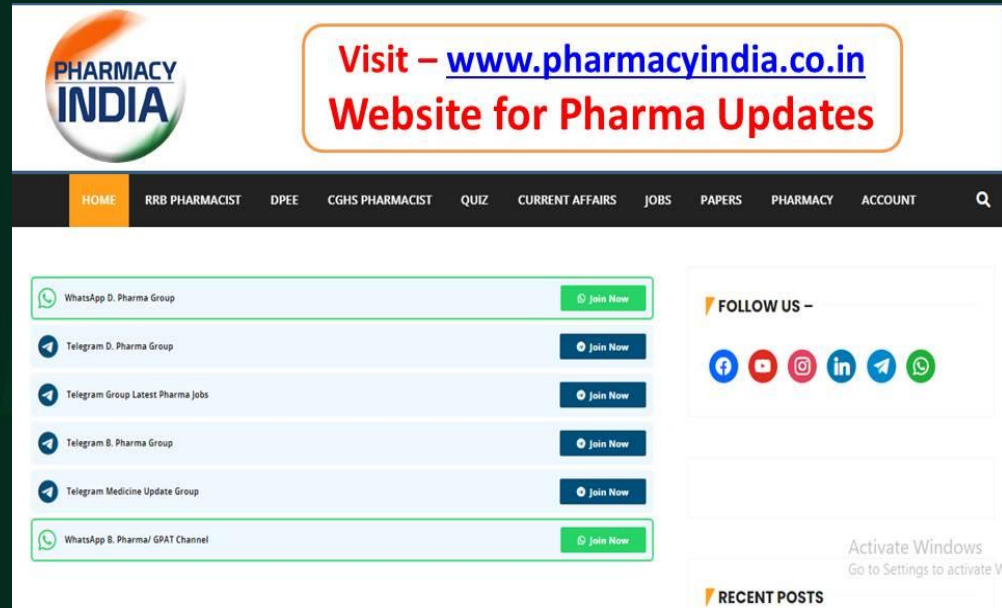
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