Andhra Pradesh State Council of Higher Education

Notations:

1. Options shown in green color and with ✓ icon are correct.

2.Options shown in red color and with * icon are incorrect.

Question Paper Name :Pharmacy 08th Oct 2021 Shift1Duration :120Total Marks :120

Display Marks: No

Share Answer Key With Delivery Engine : Yes

Calculator: None

Magnifying Glass Required?: No

Ruler Required?: No

Eraser Required?: No

Scratch Pad Required?: No

Rough Sketch/Notepad Required?: No

Protractor Required?: No

Show Watermark on Console?: Yes

Highlighter: No

Auto Save on Console? (SA type of questions will

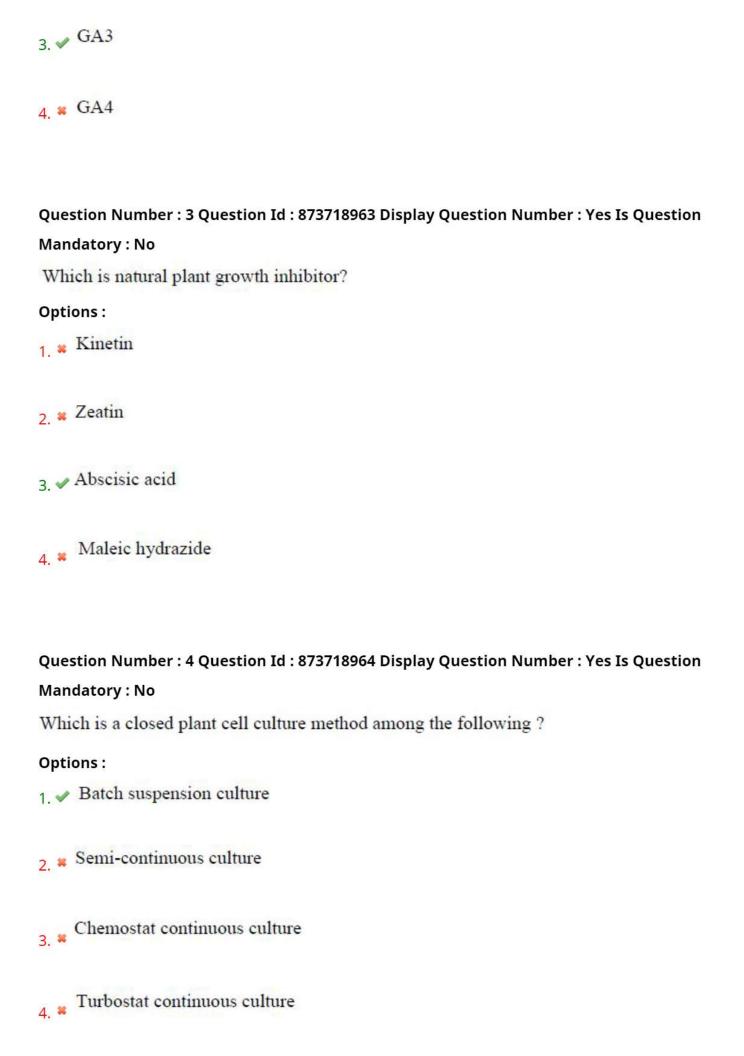
be always auto saved):

Is this Group for Examiner?: No

Pharmacy

Yes

Section Id :	8737189
Section Number :	1
Mandatory or Optional :	Mandatory
Number of Questions :	120
Section Marks :	120
Enable Mark as Answered Mark for Review and	Yes
Clear Response :	
Question Number : 1 Question Id : 873718961 Displa	ay Question Number : Yes Is Question
Mandatory : No	
Which plant growth regulators are generally used as weed kille	r at higher concentration?
Options:	
1. ✓ Indole-3-acetic acid	
2. * Indole-3-butyric acid	
3. * Naphthalene-1-acetic acid	
4. 2.4-dichlorophenoxy acetic acid	
Question Number : 2 Question Id : 873718962 Displa	ay Question Number : Yes Is Question
Mandatory : No	
is commonly referred as gibberellic acid and pr	roduced commercially by
fungal cultivation.	
Options:	
1. * GA1	
2. * GA2	



Question Number : 5 Question Id : 873718965 Display Question Number : Yes Is Question Mandatory : No

The composition of Karl Fischer reagent used for the determination of water content includes

Options:

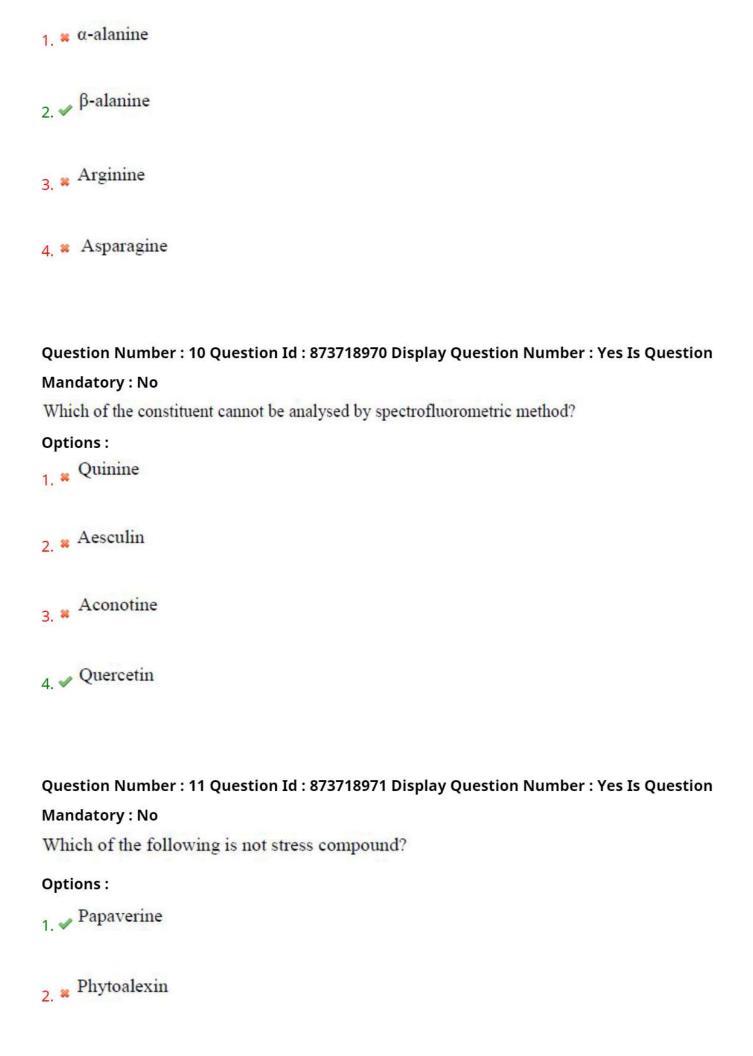
- 1. Iodine, sulphur dioxide, pyridine in dry methanol
- 2. * Iodine, sulphur trioxide, pyridine in dry methanol
- Potassium Iodide, sulphur dioxide, pyridine in dry methanol
- Potassium Iodide, sulphur trioxide, pyridine in dry methanol

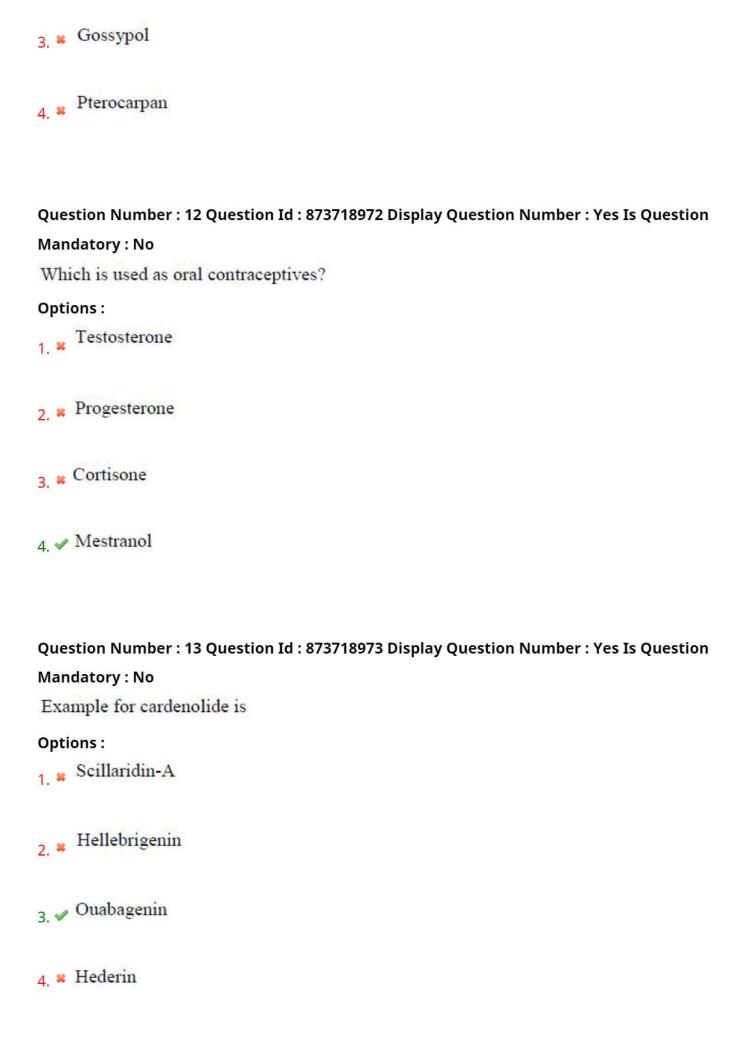
Question Number : 6 Question Id : 873718966 Display Question Number : Yes Is Question Mandatory : No

Example for hydrolase group of enzyme is

- 1. * Glucose dehydrogenase
- 2. * Peroxidase
- 3. * Aldolase
- 4. Lipase

Question Number : 7 Question Id : 873718967 Display Question Number : Yes Is Question
Mandatory : No
Rice plant belongs to the category of
Options:
1. * Intermediate C3-C4 plant
2. ✓ C3 plant
3. * C4 plant
4. * CAM plant
Question Number : 8 Question Id : 873718968 Display Question Number : Yes Is Question
Mandatory : No
Opium alkaloids are mainly synthesized by
Options:
1. * Krebs cycle
2. * Embden-Meyerhoff pathway
3. * Acetate pathway
Shikimic acid pathway 4. ✓
Question Number : 9 Question Id : 873718969 Display Question Number : Yes Is Question
Mandatory : No
Example for an amino acid not occurring in plant proteins

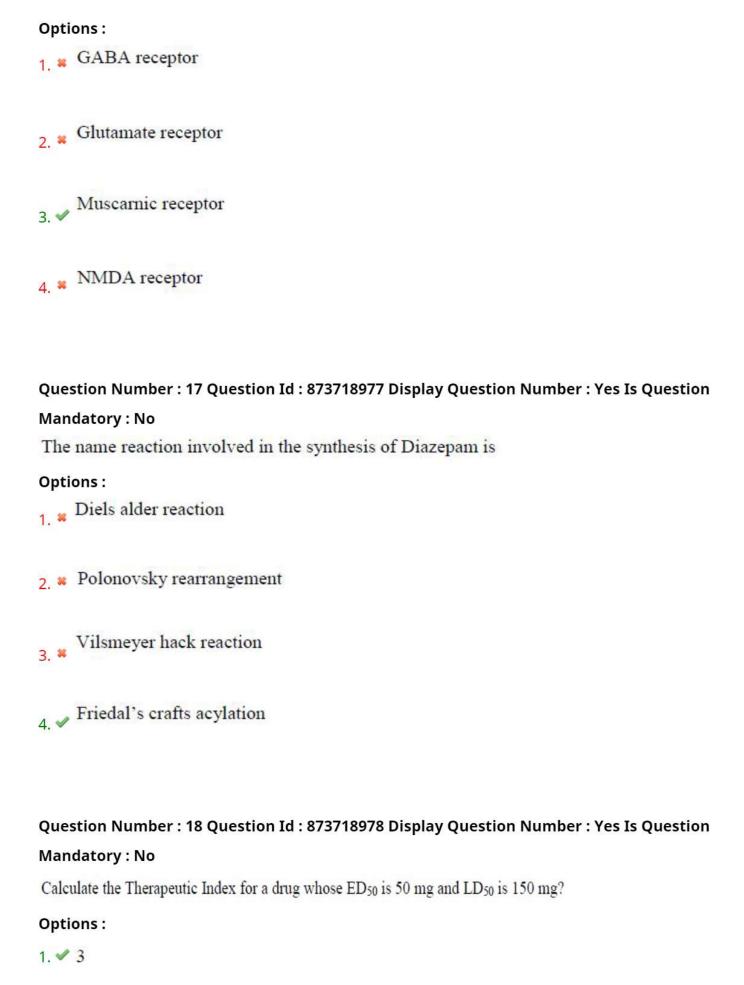


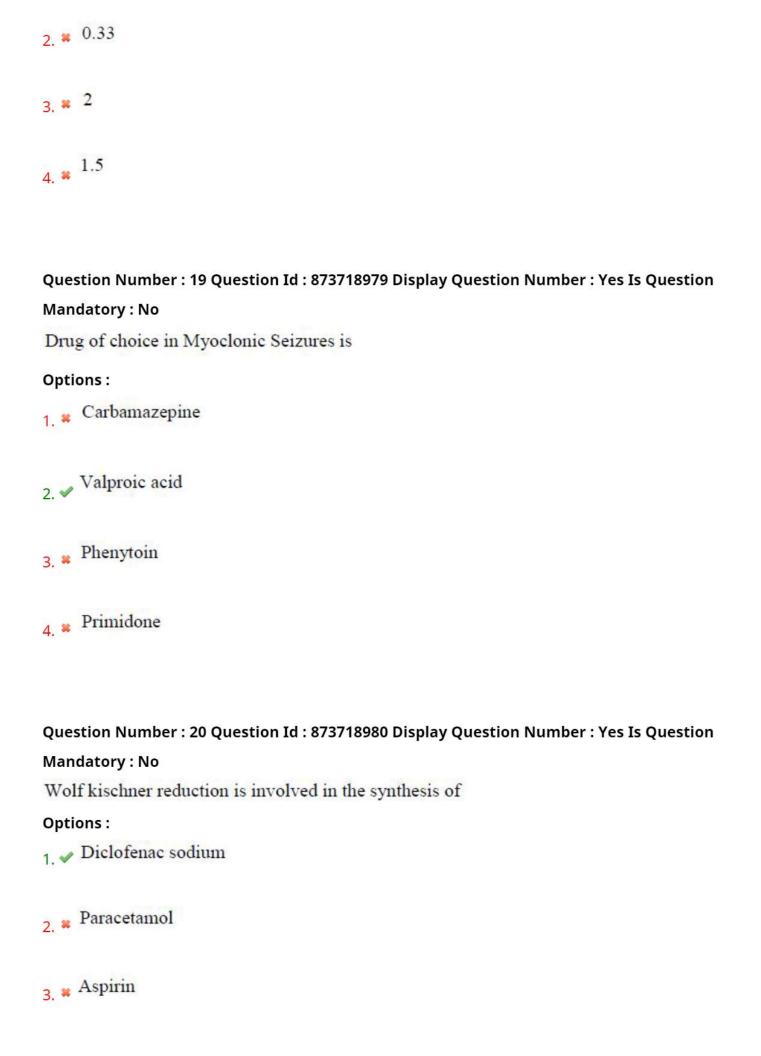


Question Number : 14 Question Id : 873718974 Display Question Number : Yes Is Question
Mandatory : No
Hager's reagent is used for the identification of
Options:
1. Alkaloids
2. * Glycosides
Carbohydrates 3. **
3. ™
4. * Proteins
Question Number : 15 Question Id : 873718975 Display Question Number : Yes Is Question
Mandatory : No
The precursor for reserpine is
Options:
1. Tryptamine
2. * Tyrosine
3. * Phenylalanine
3. * Phenylalanine 4. * Ornithine

Mandatory : No

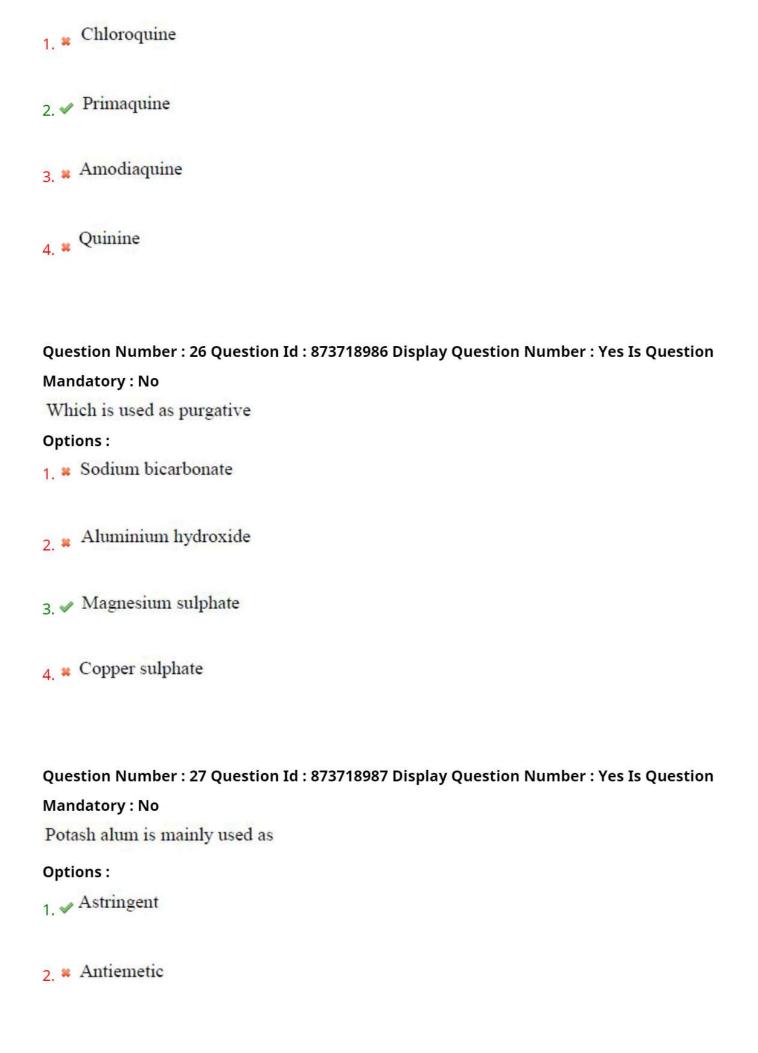
Which is G-Protein coupled receptors?

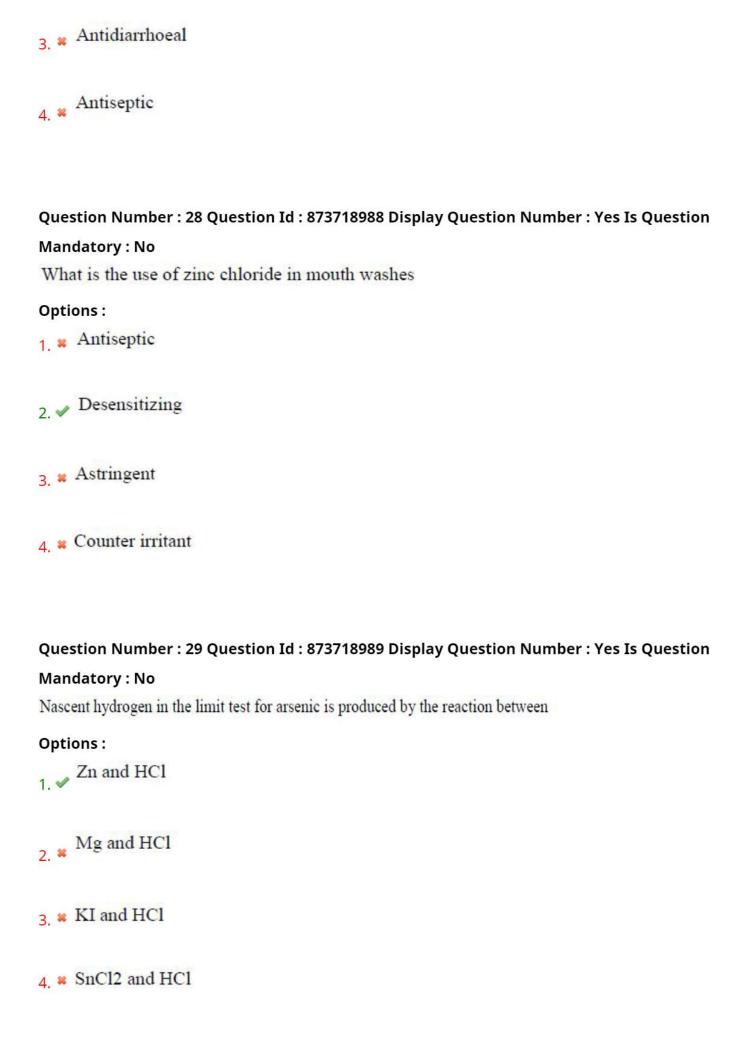




4. * Naproxen
Question Number : 21 Question Id : 873718981 Display Question Number : Yes Is Question
Mandatory : No
Morphine analog which has good cough suppressant property is
Options:
1. ✓ Codeine
2. * Morphine
3. * Heroin
4. * Pethidine
Question Number : 22 Question Id : 873718982 Display Question Number : Yes Is Question
Mandatory: No
Proline is used in the synthesis of
Options :
1. * Ramipril
2. * Quinapril
3. * Benazepril
4. Captopril

Question Number : 23 Question Id : 873718983 Display Question Number : Yes Is Question
Mandatory : No
Meerwein-Ponndorf-Verley (MPV) reduction is involved in the synthesis of
Options:
1. * Ciprofloxacin
Ofloxacin 2. **
3. ✓ Chloramphenicol
4. * Piperacillin
Question Number : 24 Question Id : 873718984 Display Question Number : Yes Is Question
Mandatory : No
Dolutegravir mainly acts by
Options: 1. ** Entry inhibition
Options:
Options: 1. * Entry inhibition
Options: 1. ★ Entry inhibition 2. ✔ Integrase inhibition
Options: 1. ** Entry inhibition 2. ** Integrase inhibition 3. ** Protease inhibition
Options: 1. ** Entry inhibition 2. ** Integrase inhibition 3. ** Protease inhibition
Options: 1. ★ Entry inhibition 2. ✔ Integrase inhibition 3. ★ Protease inhibition 4. ★ RT inhibition

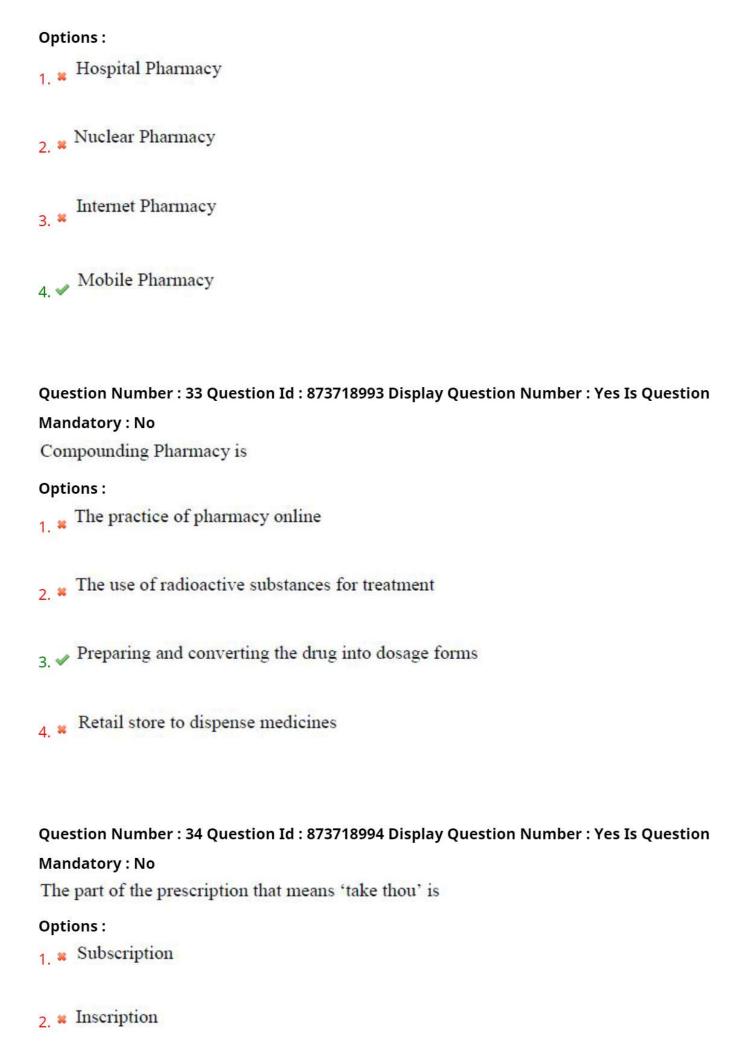


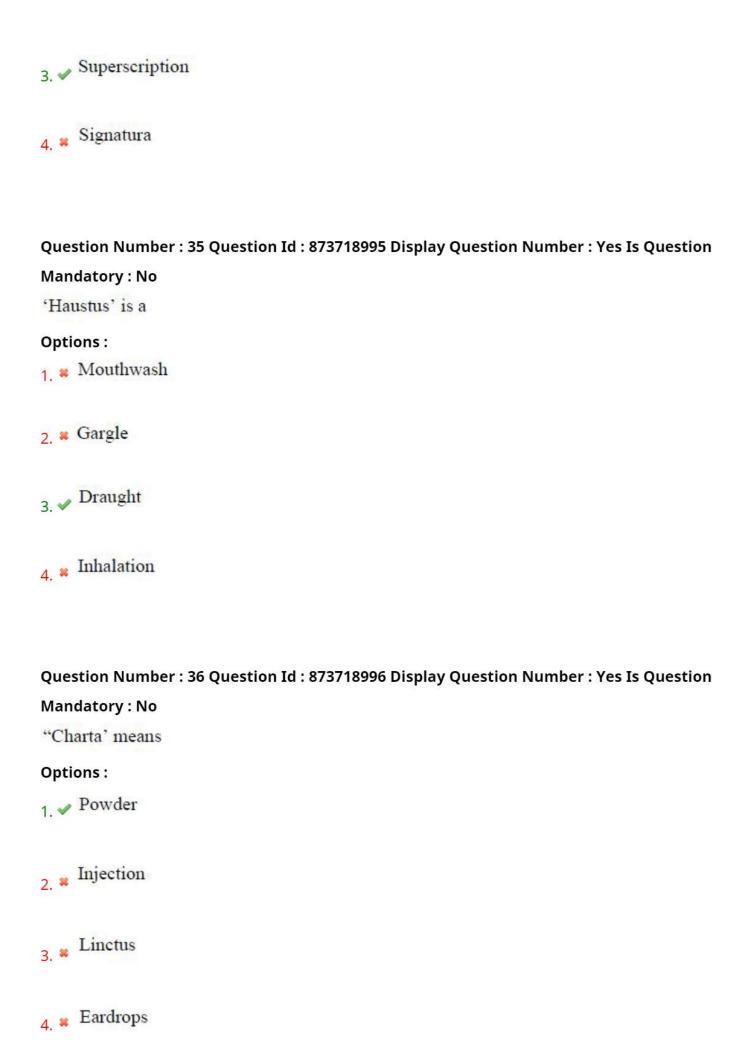


Question Number : 30 Question Id : 873718990 Display Question Number : Yes Is Question
Mandatory : No
Common ion effect is produced in the limit test for lead by
Options:
1. * Ammonium hydroxide
2. ✓ Ammonium cyanide
3. * Ammonium chloride
4. * Ammonium sulphate
Question Number : 31 Question Id : 873718991 Display Question Number : Yes Is Question
Mandatory: No
Mandatory : No
Mandatory: No Mercapto acetic acid is mainly used in the testing purity of Options: 1. * Chloride
Mandatory: No Mercapto acetic acid is mainly used in the testing purity of Options: 1. ** Chloride 2. ** Sulphate
Mandatory: No Mercapto acetic acid is mainly used in the testing purity of Options: 1. * Chloride 2. * Sulphate 3. * Heavy metals
Mandatory: No Mercapto acetic acid is mainly used in the testing purity of Options: 1. ** Chloride 2. ** Sulphate

Question Number : 32 Question Id : 873718992 Display Question Number : Yes Is Question Mandatory : No

Which one of the following is not among the pharmacy practice areas?





Question Number: 37 Question Id: 873718997 Display Question Number: Yes Is Question

Mandatory: No

Dropper bottles are preferred for

Options:

1. * Topical preparations

Ophthalmic preparations 2.

3. Ointments

4. Wiscous liquids

Question Number: 38 Question Id: 873718998 Display Question Number: Yes Is Question

Mandatory: No

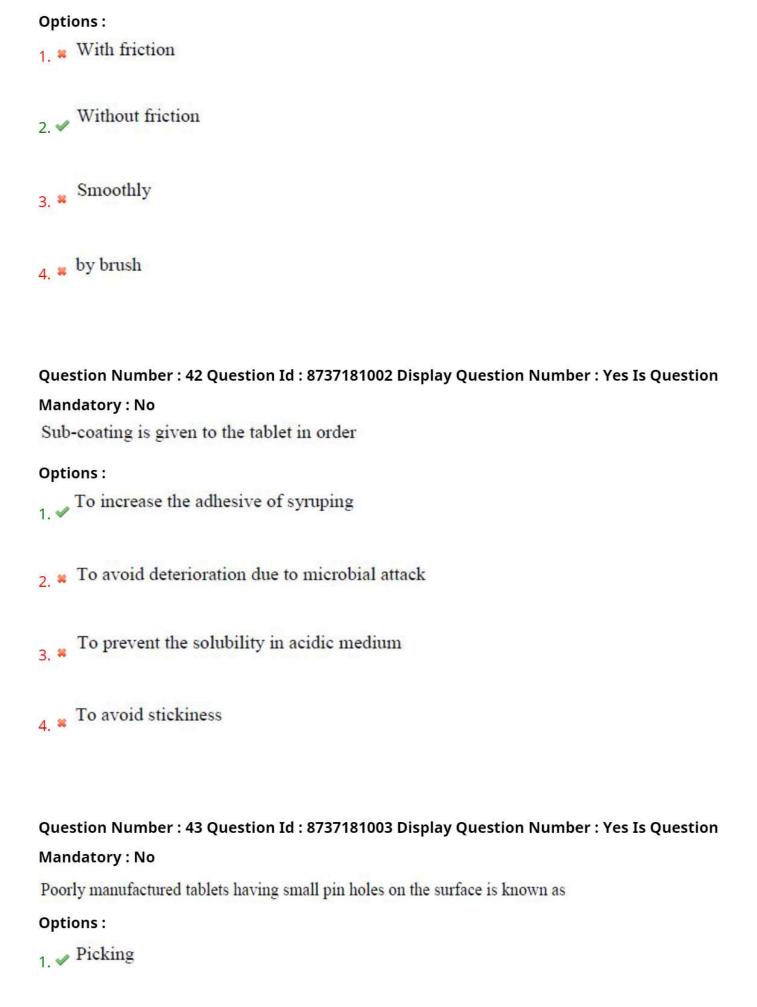
Alcohol concentration in elixir is

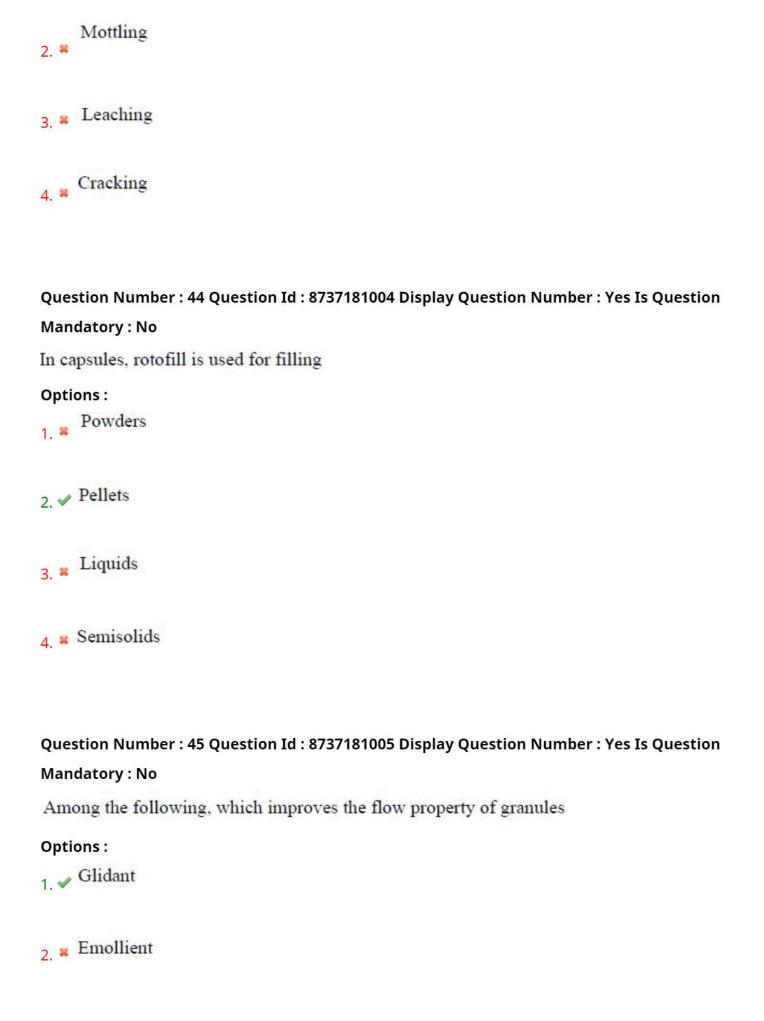
Question Number: 39 Question Id: 873718999 Display Question Number: Yes Is Question Mandatory: No Syrup IP contains Options: 1. **8** 67.7%w/w 2. **8** 67.5%w/w 3. **✓** 66.7%w/w 4. **8** 67.6%w/w Question Number: 40 Question Id: 8737181000 Display Question Number: Yes Is Question Mandatory: No Collodion is Options: 1. * Ethyl cellulose 2. Methyl cellulose 3. Nitro cellulose 4. Carboxymethyl cellulose

Question Number: 41 Question Id: 8737181001 Display Question Number: Yes Is Question

Mandatory: No

Lotions should be applied





3. * Lubricant 4. Surfactant Question Number: 46 Question Id: 8737181006 Display Question Number: Yes Is Question Mandatory: No The limit for friability of tablet is Options: 1. ✓ Not less than 1% 2. Not more than 1% 3. * between 0.5 to 1% 4. W Up to 2% Question Number: 47 Question Id: 8737181007 Display Question Number: Yes Is Question Mandatory: No Tincture of Iodine is a Options: Strong Iodine solution 2. ✔ Weak Iodine solution 3. * Saturated Iodine solution

Complex	Iodine	solution
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Question Number : 48 Question Id : 8737181008 Display Question Number : Yes Is Question

Mandatory: No

Which of the following cannot be used as an emulsifying agent

Options:

4. *

- 1. Acacia
- 2. Chlorocresol
- 3. * Tragacanth
- 4. * Methyl cellulose

Question Number : 49 Question Id : 8737181009 Display Question Number : Yes Is Question Mandatory : No

In order to prepare 100 ml of an emulsion containing 40% peppermint Oil BP, 0.5% amaranth BP and 10% syrup. How much acacia BP will be required to prepare the primary emulsion?

- 1. * 9 g
- 2. × 10 g
- 3. 🗸 20 g
- 4. * 18 g

Question Number : 50 Question Id : 8737181010 Display Question Number : Yes Is Question
Mandatory : No
Which of the following is prepared by chemical reaction
Options: 1. ✓ Non-staining Iodine Ointment
2. Whitfield's Ointment
3. * Simple Ointment
4. * Coal-tar Ointment
Question Number : 51 Question Id : 8737181011 Display Question Number : Yes Is Question
Mandatory: No
Which is not a colligative property?
Options:
1. * Freezing point
2. * Boiling point
3. * Osmotic pressure
4. ✓ Partition co-efficient

Question Number : 52 Question Id : 8737181012 Display Question Number : Yes Is Question

Hemolysis will take place if the RBCs are placed in Options: 1. ** Hypertonic solution 2. W Hypotonic solution 3. * Isotonic solution 4. Somotic solution Question Number: 53 Question Id: 8737181013 Display Question Number: Yes Is Question Mandatory: No Which is the main driving force involved in passive diffusion Options: 1. Concentration 2. * Pressure 3. Temperature 4. * Electrical potential Question Number: 54 Question Id: 8737181014 Display Question Number: Yes Is Question Mandatory: No The rate limiting step in percutaneous absorption is

Mandatory: No

1. Dissolution of drug 2. * Diffusion of drug 3. Penetration of drug through stratum corneum 4. Penetration of drug through dermis Question Number: 55 Question Id: 8737181015 Display Question Number: Yes Is Question Mandatory: No The fraction of an administered dose that actually reaches the systemic circulation is referred as Options: Bioavailability 2. Absolute bioavailability 3. * Absorption 4. Permeability Question Number: 56 Question Id: 8737181016 Display Question Number: Yes Is Question Mandatory: No Which is not an influx transporter Options: 1. P-glycoprotein

2. * Organic cation transporter Organic anion transporter 4. * Organic anion transporting polypeptides Question Number: 57 Question Id: 8737181017 Display Question Number: Yes Is Question Mandatory: No Phase-1 reaction of metabolism of drug results in Options: 1. Increase in hydrophilicity 2. * Increase in lipophilicity Decrease in hydrophilicity Decrease in lipophilicity Question Number: 58 Question Id: 8737181018 Display Question Number: Yes Is Question Mandatory: No The release of finite amount of drug at distinct time interval is called as Options: Pulsatile release 2. * Immediate release 3. * Delayed release

4. * Extended release

Question Number: 59 Question Id: 8737181019 Display Question Number: Yes Is Question

Mandatory: No

Matrix tablets follow

Options:

- 1.

 ✓ Zero order release
- 2. * First order release
- Second order release
- 4. * No release

Question Number : 60 Question Id : 8737181020 Display Question Number : Yes Is Question

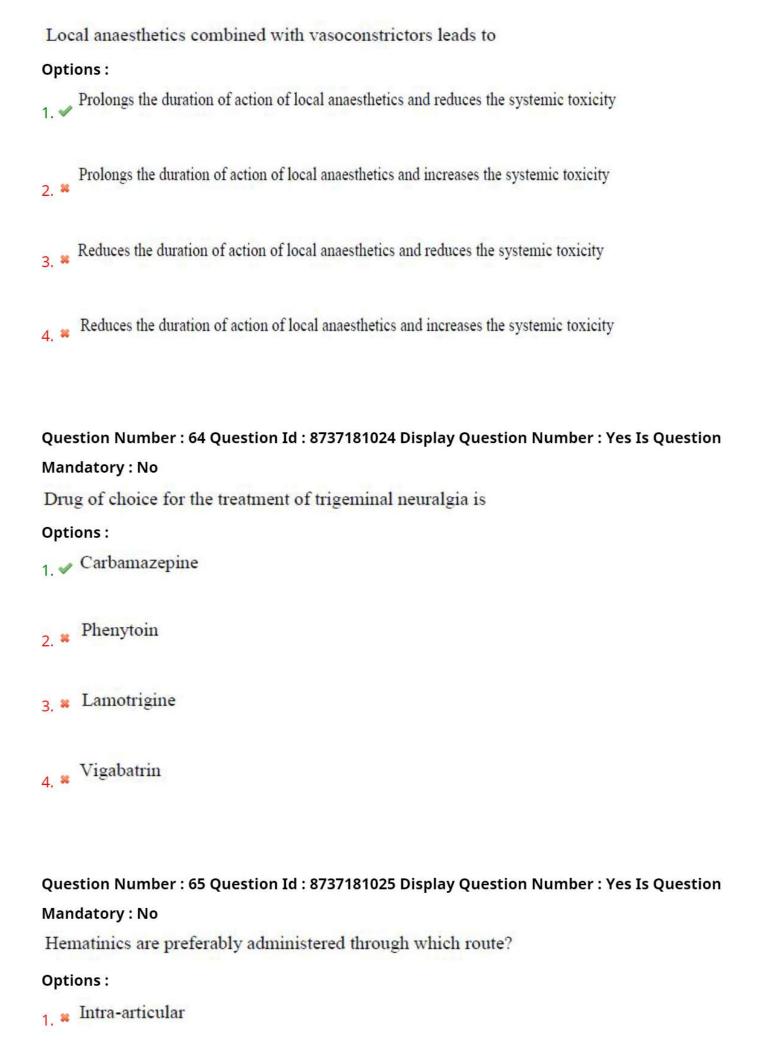
Mandatory : No

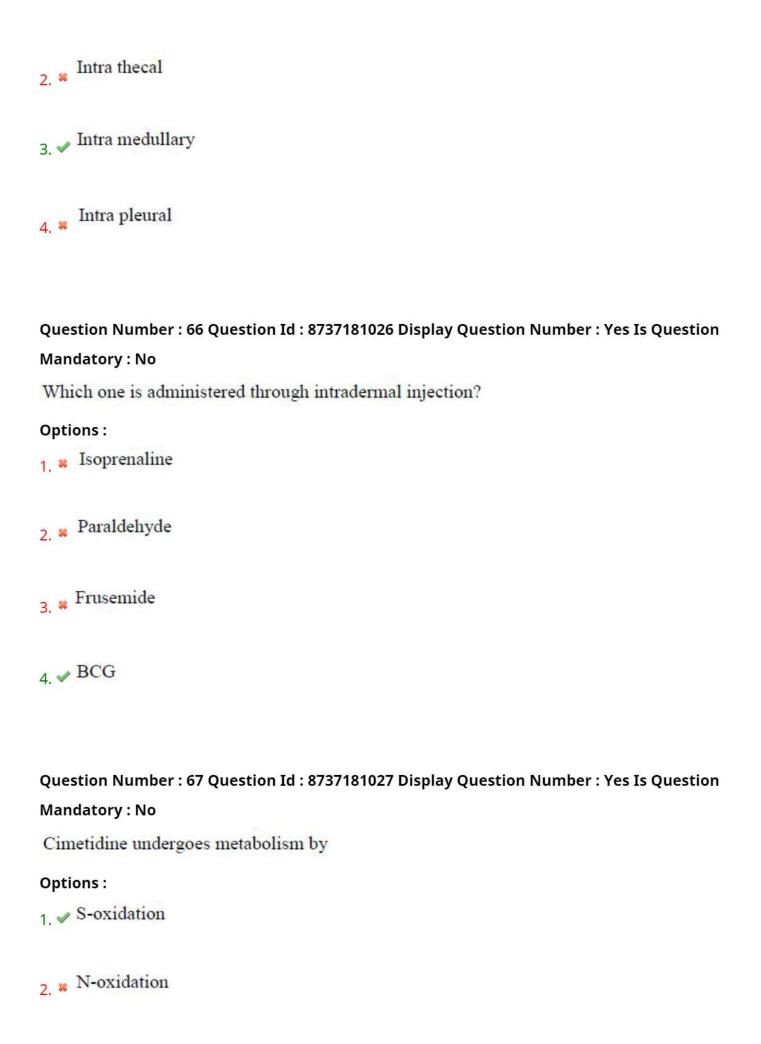
Potassium sparing diuretics mainly acts on

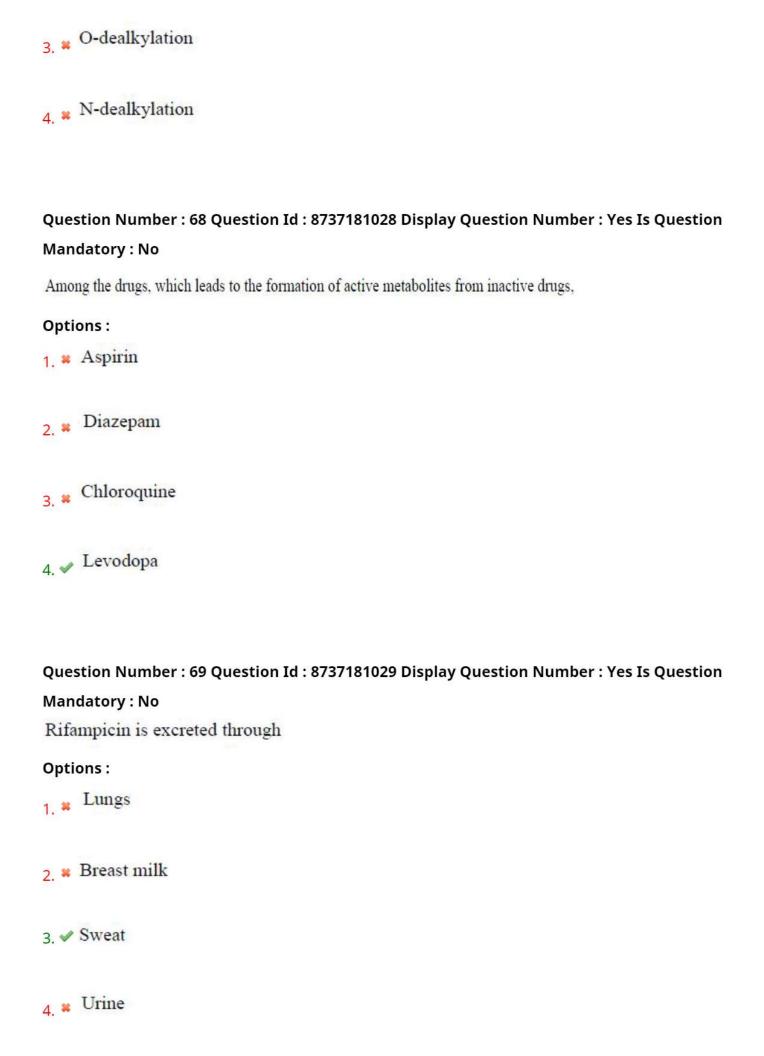
- 1. * Proximal convoluted tubule
- 2. Descending loop of Henle
- 3. * Ascending loop of Henle
- 4. Distal convoluted tubule

Question Number : 61 Question Id : 8737181021 Display Question Number : Yes Is Question
Mandatory : No
Which is an example for intermediate acting sedatives and hypnotics
Options:
1. * Diazepam
2. Vitrazepam
3. * Alprazolam
4. * Clobazam
Question Number : 62 Question Id : 8737181022 Display Question Number : Yes Is Question Mandatory : No
During stage-III of plane-IV general anaesthesia
Options:
The pupils are normal in size and eye balls are moving
The pupils begin to dilate and eye balls are fixed
The pupils are moderately dilated and eye balls are fixed
The pupils are widely dilated and eye balls are fixed 4. ✔

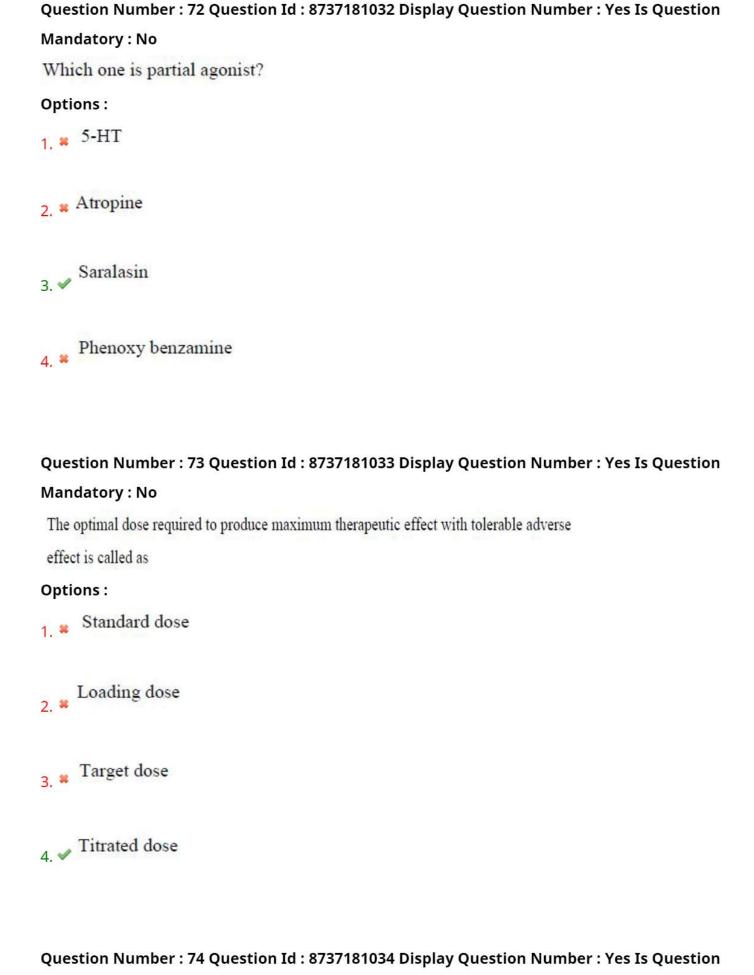
Question Number : 63 Question Id : 8737181023 Display Question Number : Yes Is Question Mandatory : No



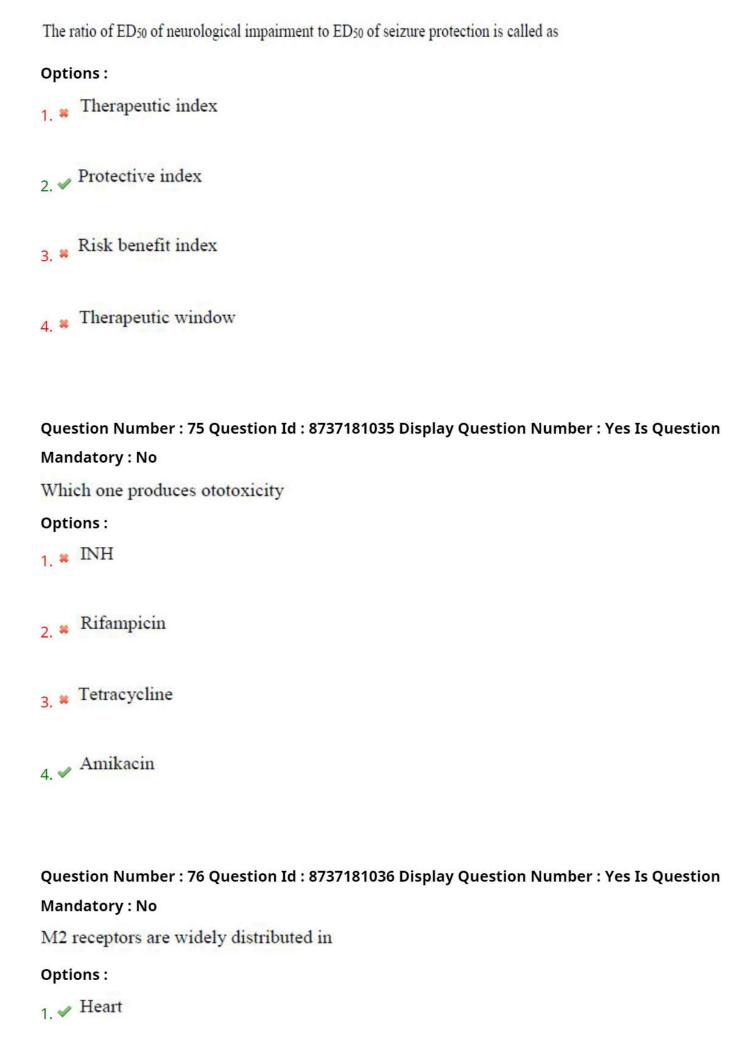


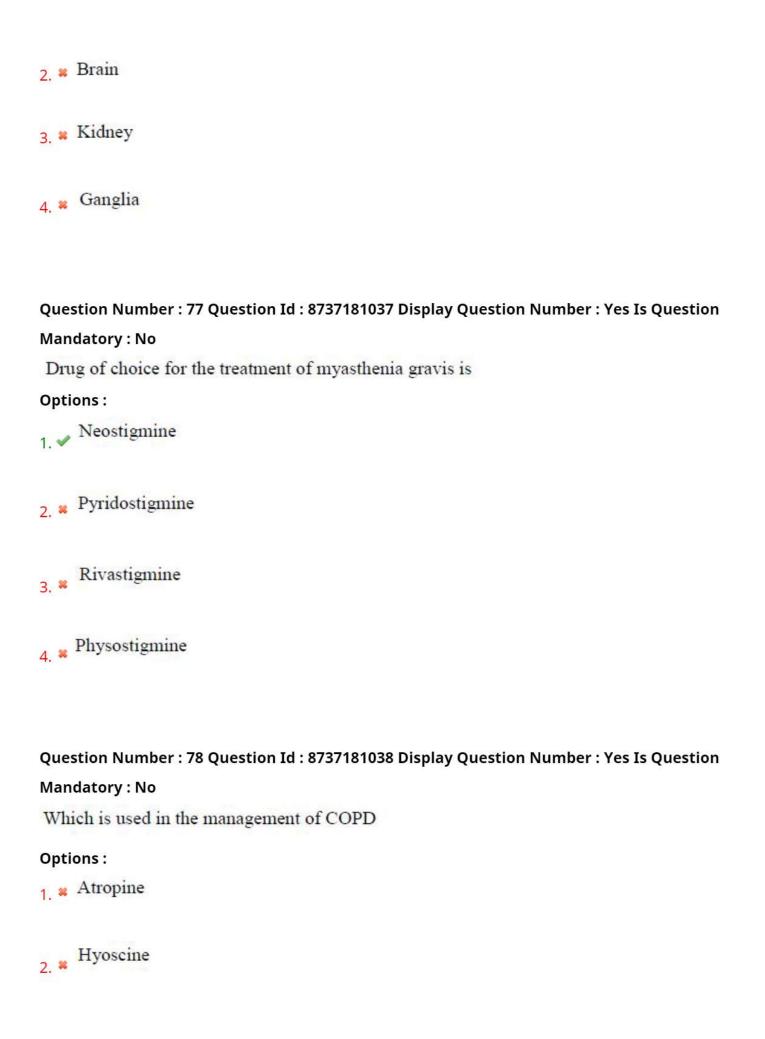


Question Number: 70 Question Id: 8737181030 Display Question Number: Yes Is Question Mandatory: No Plasma t^{1/2} of digitoxin is Options: 1. × 7 minutes 2. ***** 7 hours 3. • 7 days 4. × 7 weeks Question Number: 71 Question Id: 8737181031 Display Question Number: Yes Is Question Mandatory: No The receptors which do not produce pharmacological effects but are involved in binding of drugs to plasma proteins are called as Options: 1. Silent receptors 2. * Pharmaco receptors 3. Spare receptors 4. * Storage receptors



Mandatory: No



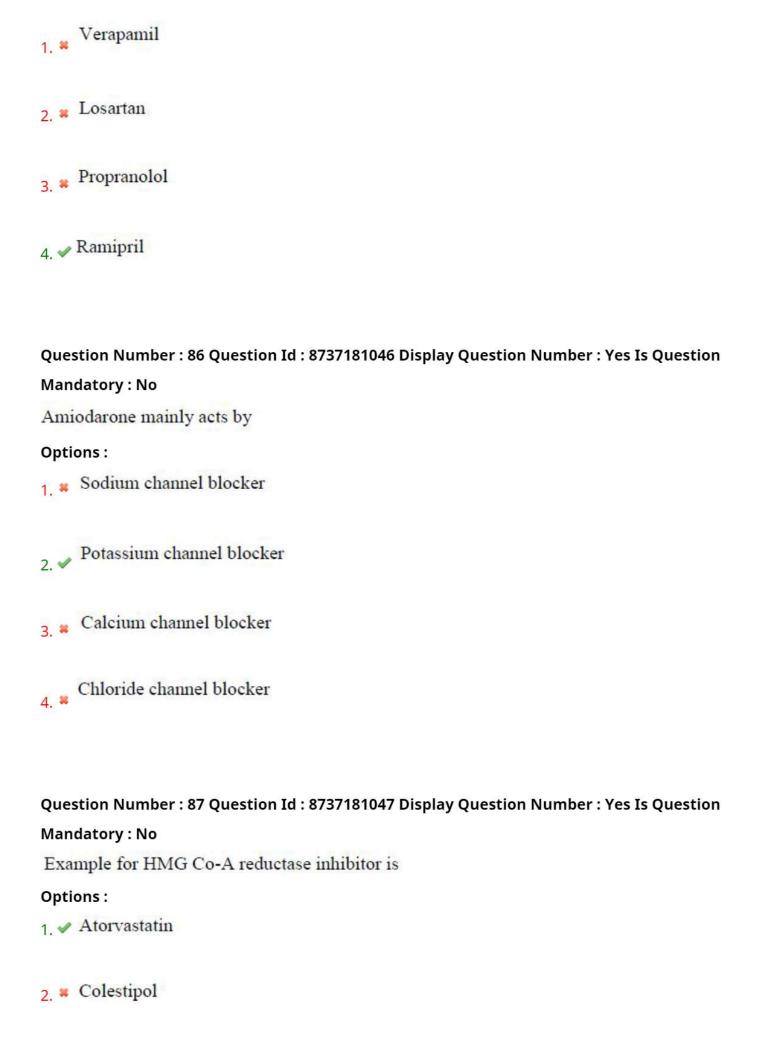


3. * Cycrimine 4. Ipratropium Question Number: 79 Question Id: 8737181039 Display Question Number: Yes Is Question Mandatory: No Astemizole belongs to the category of Options: 1. * Highly sedative antihistamine 2. Moderately sedative antihistamine Mild sedative antihistamine 4. ✓ Non-sedative antihistamine Question Number: 80 Question Id: 8737181040 Display Question Number: Yes Is Question Mandatory: No Which is used as anti-emetics Options: 1. * 5-HT1 antagonist 2. × 5-HT2 antagonist 3. 5-HT3 antagonist 4. * 5-HT4 antagonist

Question Number: 81 Question Id: 8737181041 Display Question Number: Yes Is Question Mandatory: No Mechanism of action of rabeprazole is Options: 1. * H2 antagonist 2. Proton pump inhibition 3 * Muscarinic antagonist Adrenergic antagonist Question Number: 82 Question Id: 8737181042 Display Question Number: Yes Is Question Mandatory: No Loperamide mainly acts on Options: 1. * Delta opioid receptor Kappa opioid receptor 2. ** 3. Mu opioid receptor Zeta opioid receptors

Question Number : 83 Question Id : 8737181043 Display Question Number : Yes Is Question

Mandatory : No
Organic nitrates are clinically used during except
Options:
1. * Acute left ventricular failure
2. * Congestive cardiac failure
3. * Acute myocardial infarction
4. Cardiac arrhythmias
Question Number : 84 Question Id : 8737181044 Display Question Number : Yes Is Question
Mandatory : No
Write the MOA of prazosin
Options: 1. α-adrenergic blocker
β-adrenergic blocker 2. **
3. * Mixed adrenergic blocker
4. * Ca2+ channel blocker
Question Number : 85 Question Id : 8737181045 Display Question Number : Yes Is Question
Mandatory : No
Which one acts by inhibition of ACE



3. * Clofibrate
4. * Probucol
Question Number : 88 Question Id : 8737181048 Display Question Number : Yes Is Question
Mandatory : No
If the sample size is 1 to 10 mg means, what will be term of analysis used?
Options:
1. * Macro
2. Semi-micro
3. Micro
4. Sub-micro
Question Number : 89 Question Id : 8737181049 Display Question Number : Yes Is Question
Mandatory : No
Slightly soluble means
Options:
1. * 30 to 100 ml of solvent will be required to dissolve 1 gm of solute
100 to 1000 ml of solvent will be required to dissolve 1 gm of solute 2. \checkmark
10 to 30 ml of solvent will be required to dissolve 1 gm of solute 3. *
1000 to 10000 ml of solvent will be required to dissolve 1 gm of solute

Question Number: 90 Question Id: 8737181050 Display Question Number: Yes Is Question Mandatory: No Which is an example for indeterminate error
Options: 1. Electrical noise in instruments
Un-calibrated mass balances
Improperly calibrated volumetric flasks
4. * impure reagents
Question Number : 91 Question Id : 8737181051 Display Question Number : Yes Is Question Mandatory : No
Checking the accuracy and precision under small changes in condition is called as
Options: 1. ** Repeatability
2. Reproducibility
3. * Ruggedness
4. ✓ Robustness

Question Number: 92 Question Id: 8737181052 Display Question Number: Yes Is Question Mandatory: No
Calculate the pOH of 0.01N HCl.
Options:
1. * 2
2. 🗸 12
3. * ¹
4. * 11
Question Number : 93 Question Id : 8737181053 Display Question Number : Yes Is Question
Mandatory : No
Weakly acidic and weakly basic substances are preferably analyzed by which method?
Options:
1. * Acidimetry
Alkalimetry 2. **
3. * Redox
4. Non-aqueous
Question Number : 94 Question Id : 8737181054 Display Question Number : Yes Is Question
Mandatory : No

Calculate the molarity of NaOH (Mol.wt = 40) if 375 ml of solution contains 5.5 gm of NaOH.



- 1. 0.37 M
- 2. ***** 0.037 M
- 3. **3**.7 M
- 4. × 0.0037 M

Question Number : 95 Question Id : 8737181055 Display Question Number : Yes Is Question Mandatory : No

Which concept describes that the base is the substance that contains an atom with unshared pair of electrons.

Options:

- 1. Lewis
- 2. # Henderson Hasselbalch
- 3. * Bronsted lowry
- 4. * Arrhenius

Question Number : 96 Question Id : 8737181056 Display Question Number : Yes Is Question

Mandatory : No

Mohr's method is mainly used for determination of

Options:

 Cl^- and Br^- in acid medium

2. \checkmark Cl^- and Br^- in neutral medium

 F^- and I^- in acid medium 3.

 $_{4}$ * F^{-} and I^{-} in neutral medium

Question Number: 97 Question Id: 8737181057 Display Question Number: Yes Is Question

Mandatory : No

Convert the transmittance of 0.39 into absorbance

Options:

1. 🗸 0.41

2. * 0.041

3. * 1.41

4. * 0.0041

Question Number : 98 Question Id : 8737181058 Display Question Number : Yes Is Question

Mandatory : No

Convert the absorbance of 0.99 into % transmittance

Options :

1. * 1.023%

Question Number : 99 Question Id : 8737181059 Display Question Number : Yes Is Question Mandatory : No

CH₃OCH₃ undergoes which type of electronic transition?

Options:

$$\sigma \rightarrow \sigma^*$$

$$\pi \rightarrow \pi *$$

4.
$$n \rightarrow \pi *$$

Question Number : 100 Question Id : 8737181060 Display Question Number : Yes Is Question Mandatory : No

Bands occur due to coupling between fundamental vibration and overtone is called

Options:

1. Fermi resonance

2. * Difference bands

3. * Combination bands 4. * Coupled vibrations Question Number: 101 Question Id: 8737181061 Display Question Number: Yes Is Question Mandatory: No In which, both bond angle is maintained Options: 1. Rocking 2. Scissoring 3. Wagging Twisting Question Number: 102 Question Id: 8737181062 Display Question Number: Yes Is Question Mandatory: No The finger print region in IR spectra ranges from Options: 1. * 4000 - 3000 cm⁻¹ 2. **3**000- 2000 cm⁻¹ 3. **×** 2000 - 1500 cm⁻¹

4. V

Question Number : 103 Question Id : 8737181063 Display Question Number : Yes Is Question Mandatory : No

What is the enantiomeric excess of a solution containing 50% (+) and 50% (-)

Options:

- 1. 4 0
- 2. × 100
- 3. * 50
- 4. * 25

Question Number : 104 Question Id : 8737181064 Display Question Number : Yes Is Question Mandatory : No

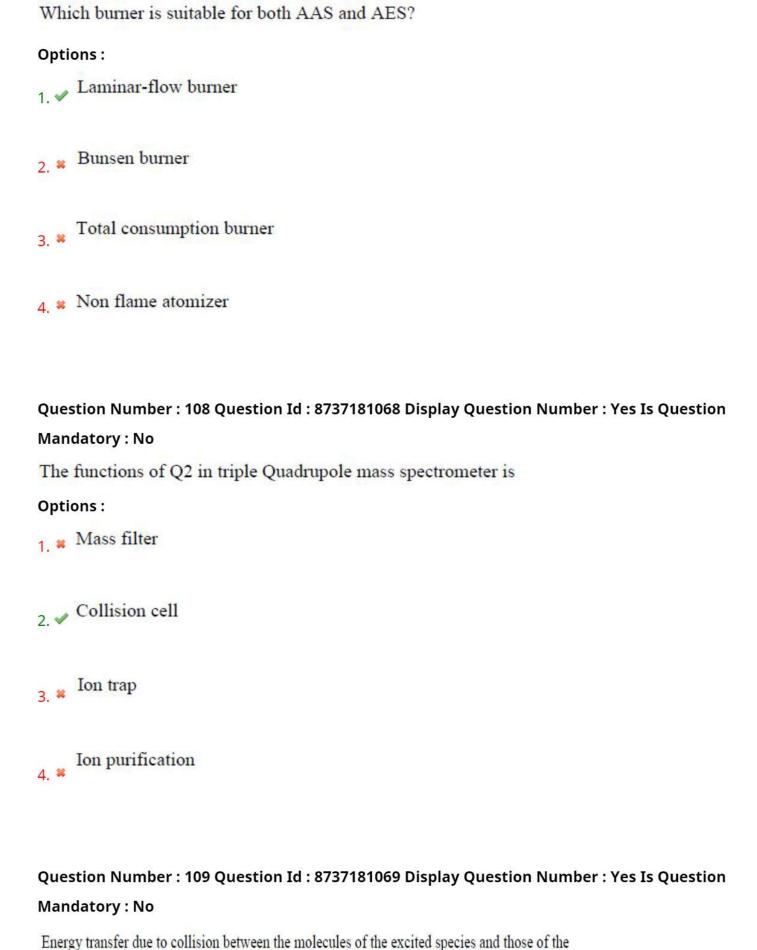
Uniform wavelength containing light whose propagation will be there at only one plane is called

Options:

- Polychromatic radiation
- 2. * Monochromatic radiation
- 3. Plane polarized radiation
- 4. * Circularly polarized radiation

Question Number : 105 Question Id : 8737181065 Display Question Number : Yes Is Question
Mandatory : No
Stereoisomers that are non-superposable, but are not mirror images are called
Options:
1. * mesomers
optical antipodes 2. **
enantiomers 3. **
diastereomers 4. ✓
Overtion Name to a 400 Overtion Tele 0727404000 Disules Overtion Name to a Verte Overtion
Question Number : 106 Question Id : 8737181066 Display Question Number : Yes Is Question
Mandatory : No
Mandatory: No Which is used to cement the two halves of calcite crystal in polarizer? Options:
Mandatory: No Which is used to cement the two halves of calcite crystal in polarizer?
Mandatory: No Which is used to cement the two halves of calcite crystal in polarizer? Options:
Mandatory: No Which is used to cement the two halves of calcite crystal in polarizer? Options: Nicol prism
Mandatory: No Which is used to cement the two halves of calcite crystal in polarizer? Options: 1. ★ Nicol prism 2. ✔ Canada Balsam

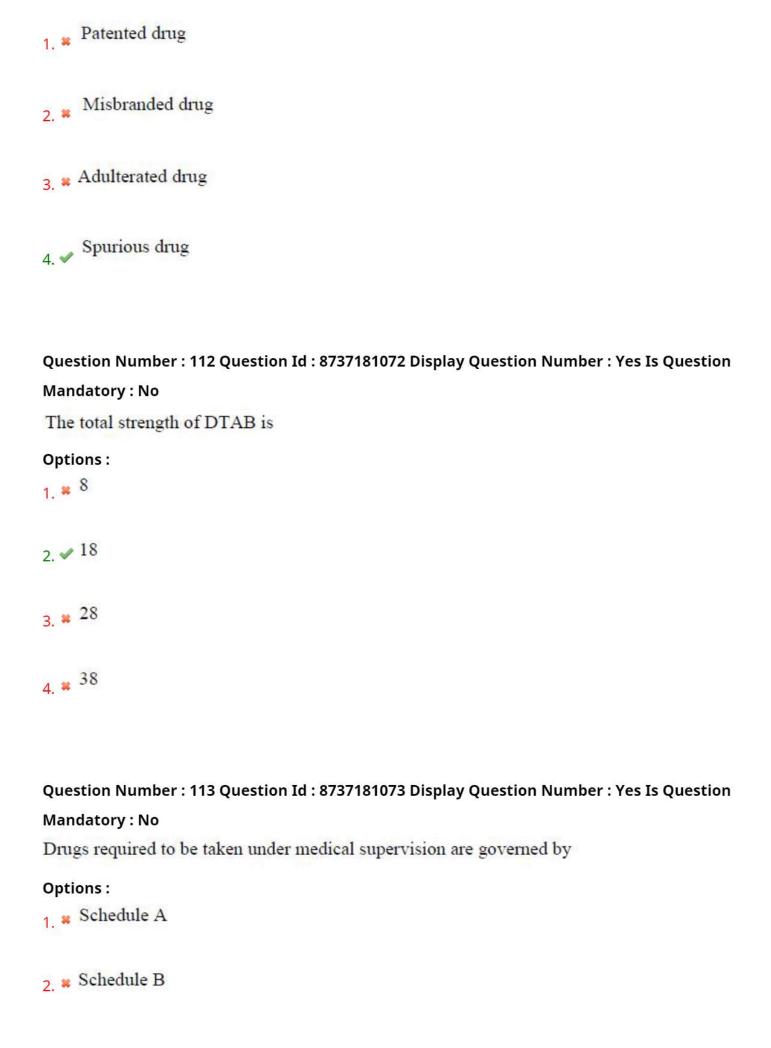
Question Number : 107 Question Id : 8737181067 Display Question Number : Yes Is Question Mandatory : No



solvent is called as

Options:
1. * Internal conversion
Intersystem crossing 2. **
3. ✔ Vibrational relaxation
4. * Fluorescence
Question Number : 110 Question Id : 8737181070 Display Question Number : Yes Is Question
Mandatory : No
Which mobile phase will you use for the separation of hydrophilic analytes using adsorption
chromatography?
Options:
1. ✓ hydrophilic
hydrophobic 2. **
3. * amphiprotic
4. * neutral
Question Number : 111 Question Id : 8737181071 Display Question Number : Yes Is Question
Mandatory : No
As per DCA 1940, if any drug that has been substituted partly by another drug substance is called as

Options:



3. * Schedule C
4. ✓ Schedule G
Question Number : 114 Question Id : 8737181074 Display Question Number : Yes Is Question
Mandatory : No Schedule H mainly deals with
Options: 1. List of prescription drugs
2. * List of biological products governed by special provisions
List of other special products governed by special provisions 3. **
Class of drugs: extent and conditions of exemption 4. **
Question Number : 115 Question Id : 8737181075 Display Question Number : Yes Is Question
Mandatory: No
As per DCA 1940, Form-2 is mainly used for Options:
1. * Memorandum to the CDL
2. ✓ Certificate of CDL for test
3. * Undertaking accompanying for import license
4. * Intimation to person for taking sample

Question Number : 116 Question Id : 8737181076 Display Question Number : Yes Is Question Mandatory : No

As per DCA 1940, Certificate of renewal of license to manufacture cosmetics is generally issued upon

Options:

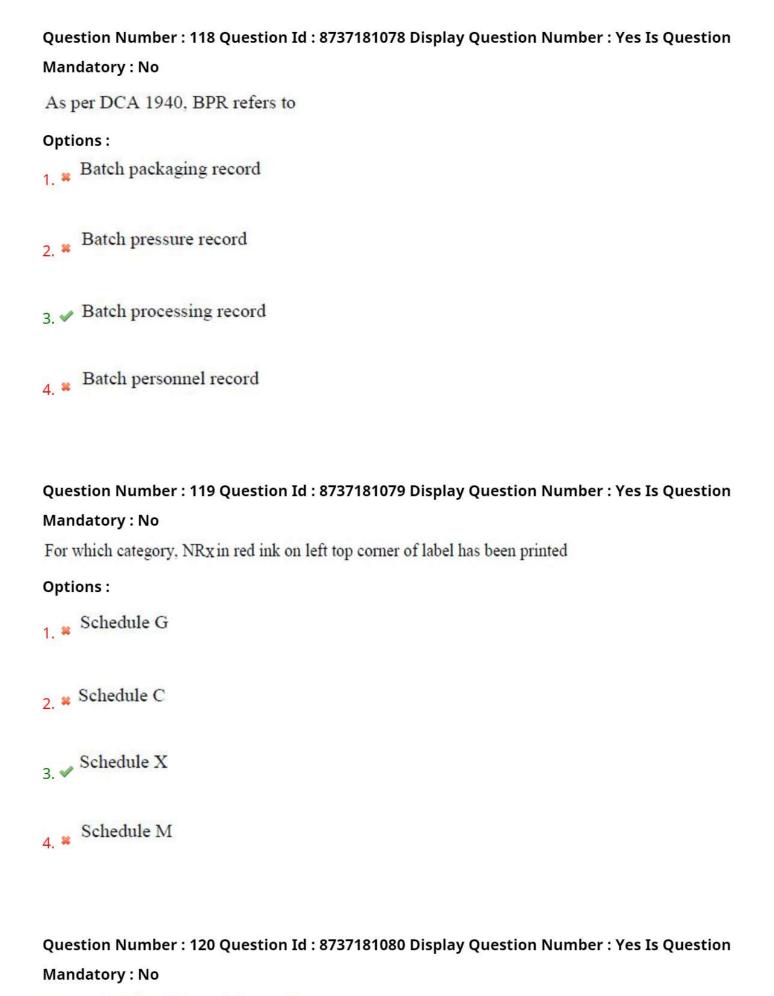
- 1. Form 33
- 2. * Form 33A
- 3. * Form 34
- 4. * Form 34A

Question Number : 117 Question Id : 8737181077 Display Question Number : Yes Is Question Mandatory : No

Which is exempted under prohibition from the import

Options:

- 1. Drugs which are not of standard qualities
- 2. * Drugs which are misbranded
- 3. Drugs for import of which license is required
- small quantities of any drug, subject to prescribed conditions for personal use 4.



As per NDPS 1985, which is not narcotics

Options :

- 1. * Morphine
- 2. Codeine
- 3. * Heroin
- 4. Caffeine