



PHARMACY INDIA

PRACTICE WORK SHEET - 8

Name of Candidate:-.....

Date:-.....

Mobile No.:-.....

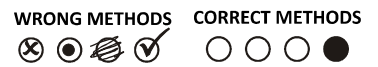
College Name:-.....

Candidate Sign

INSTRUCTIONS:-

1. The Questions Booklet contains 125 questions. Examinee is required to answer all 125 questions in the OMR Answer-Sheet and not in the questions Booklet. All questions carry equal marks.
2. Examine the Questions Booklet and OMR Answer-Sheet very carefully before you proceed. Faulty Questions Booklet due to missing or duplicate paper/question or having any other discrepancy should be immediately replaced.
3. Features:- (i) Each Worksheet Contain 125 Question (ii) Subject Wise Distribution (iii) According To Syllabus (iv) Designed By Team Of Experts

Invigilator Sign



PRACTICE WORK SHEET - 8

INDIA'S 1ST OFFLINE TEST SERIES WITH DETAILED EXPLANATION

FEATURES

- Each Worksheet Contain 125 Question
- Subject Wise Distribution
- According To Syllabus
- Designed By Team Of Experts



PHARMACY INDIA

Street No - 4 , Dayalpuram , Khatauli, District - M.Nagar,
Pin Code - 251201, U.P



Pharmacyindia.co.in



Pharmacyindia24@gmail.com



8006781759 , 6395596959

PHARMACEUTICS

- Following are endogenous carriers use for targeted drug delivery EXCEPT
 - Lipoprotein
 - Serum Albumin
 - Erythrocyte
 - Microparticulates
- Keesom interactions has a force of
 - 0.5-1 kcal/mol
 - 1-7 kcal/mol
 - 1-3 kcal/mol
 - None of these
- Dipole-induced dipoles are also known as
 - London forces
 - Keesom forces
 - Debye forces
 - Hydrogen bonding
- The angle of repose is calculated by
 - $\tan \alpha = \text{Radius/Height}$
 - $\tan \alpha = 1 + \text{Radius/Height}$
 - $\tan \alpha = 1 - \text{Radius/Height}$
 - $\tan \alpha = \text{Height/Radius}$
- Which method is used by pharmacists for complete blending of potent powders with large quantities of diluents
 - Spatulation
 - Levitation
 - Trituration
 - Geometric dilution

Geometric Dilution
Geometric dilution is a pharmaceutical process that thoroughly mixes a small amount of a drug with an appropriate amount of a diluent, an inert substance that thins or binds the drug. It ensures equal distribution of the drug throughout the resulting compound.
- IVIVC utilizes the principles of statistical moment analysis
 - Level A
 - Level B
 - Level C
 - Level D
- As per Factories Act 1948, in CHAPTER VI dealing with working hours of adults, no adult worker shall be required or allowed to work in a factory for more than _____ hours in a week
 - 30
 - 40
 - 48
 - 56
- Which of the following is not patentable in India as per the Patents Act 1970
 - New product
 - New process
 - New use of existing drug
 - New process for existing drug
- Which of the following agencies is not classified as an 'executive agency' for administration of the act under the provision of Drugs and Cosmetics Act 1940
 - Licensing authority
 - Drug inspectors
 - Drugs Consultative Committee
 - Customs collectors
- Statement 1: Vortex formation can be minimized by push pull mechanism
Statement 2: Vortex formation reduces the mixing intensity by increasing the velocity of impeller
 - True, False
 - True, True
 - False, False
 - False, True
- Containers may be rendered free from pyrogens by adequate cleaning and by

- Hyper discriminating solvents reflect more closely the transport across the blood-brain barrier whereas hypo discriminating solvents give values consistent with buccal absorption.

28. Ans (c)

Dissociation constant or pKa can be determined by following methods

<ul style="list-style-type: none"> • UV-spectrophotometry • Potentiometry • Solubility 	<ul style="list-style-type: none"> • Kinetic pH rate profile • In silico predictions PALLAS
---	---

29. Ans (a)

There are 4 types of hygroscopicity

Classification of Hygroscopicity	Description
Class 1: Non - hygroscopic	Essentially no moisture increases occur at relative humidities below 90%.
Class 2: Slightly hygroscopic	Essentially no moisture increases occur at relative humidities below 80%.
Class 3: Moderately hygroscopic	Moisture content does not increase more than 5% after storage for 1 week at relative humidities below 60%.
Class 4: Very hygroscopic	Moisture content increase may occur at relative humidities as low as 40 to 50%.

30. Ans (c)

Ointments	Semisolid systems containing dissolved or suspended drug into certain bases that are applied externally, primarily to the skin, and also to mucous membranes, e.g., the rectum, the vagina/vulva or the eye.
Pastes	Semisolids incorporating a high percentage of insoluble particulate solids. Insoluble particulate solids may exceed 50%.
Creams	Semisolid emulsions for external application. o/w semisolid emulsions = vanishing creams. w/o semisolid emulsion = cold creams.

31. Ans (a)

Classification of filtration equipment's

Based on application of external force:

- **Pressure filter** - Plate and frame filter press, meta filter
- **Vacuum filters** - Filter leaf
- **Centrifugal filters**

32. Ans (b)

Schedule C₁

DRUGS	DRUGS
1. Digitalis group 2. Ergot and its preparation	7. Hormones and preparations containing hormones not in a form to be administered parenterally.

52. Ans (d) USES OF ANTICHOLINESTERASE

<ul style="list-style-type: none"> • Glaucoma • Myasthenia gravis • Alzheimer's disease 	<ul style="list-style-type: none"> • Cobra bite • Belladonna poisoning. 	<ul style="list-style-type: none"> • Postoperative decurarization • Postoperative paralytic ileus/urinary retention
--	---	---

53. Ans (b) ADVERSE EFFECT OF ATROPINE [DHATURA]

D - Dry mouth	H - Hot dry skin	A - Accomodation paralysis	T - Tachycardia
U - Urinary retention	R - Respiratory depression	A - Ataxia (Lacks of voluntary constriction)	

54. Ans (a)

- Indapamide It is a mild diuretic, chemically related to chlorthalidone; reduces BP at doses which cause little diuresis.
- Electrolyte disturbances and K⁺ loss is minimal at antihypertensive doses.
- It probably has additional vasodilator action exerted through alteration of ionic fluxes across vascular smooth muscle cell.

55. Ans (c)

FORMULATION	DURATION OF ACTION
GTN (Nitroglycerine) sublingual tablet	10-30 min
sublingual Spray	10-30 min
Oral tablet	4-8 hrs
Transdermal Patch	One patch for 14-16 hrs/day

56. Ans (a) OPOIDS AGONISTS

CLASS	DRUGS
Natural opium alkaloids	Morphine, Codeine, Thebaine*, Papaverine*, Noscapine*
Semisynthetic opioids	Heroin, Pholcodine*, Hydromorphone, Oxymorphone
Synthetic opioids	Pethidine, (Meperidine), Fentanyl, Methadone, Tramadol, Dextropropoxyphene, Ethoheptazine.

57. Ans (a)

- Aspirin Inhibits platelet aggregation and therefore causes g. bleeding which could be may be contraindicated in anticoagulated patients.
- High doses of salicylates have synergistic hypoprothrombinemic action and also displace warfarin from protein binding site.

58. Ans (c) CONNECTIVE TISSUE

- | | | |
|--|---|--|
| | <ul style="list-style-type: none"> ▪ Clove does not contain starch but mother clove contains starch. | |
|--|---|--|

71. Ans (c)

ANTHRANOL	ANTHRONE
Soluble in alkali	Insoluble in alkali
Brown yellow in colour	Pale yellow in colour
Show florescence in alkali	Does not show florescence in alkali

72. Ans (c)

- Rotenone is an isoflavone derivative and is biosynthesized from acetate, mevalonate and phenylalanine with an extra carbon arising from a C-1 pool.
- The roots also contain deguelin which is similar to rotenone but possesses a gem-dimethylpyran moiety.
- Flavonoids and stilbenes with the same moiety are minor components. Rotenoid derivatives, having a larvicidal property, have been isolated from *Derris trifoliata*; activity is due mainly to rotenone.

73. Ans (a) CONDENSED TANNINS

DESCRIPTION	PLANT
<ul style="list-style-type: none"> • On treatment with acid, it produces phlobaphene's • These tannins are resistance to hydrolysis. 	Ashoka Bark, Black catechu, Pale catechu, Pterocarpus, Cinchona bark, Cinnamon bark

74. Ans (a) TRADITIONAL SYSTEM OF MEDICINES

SYSTEM OF MEDICINES	THEORY
Unani system of medicine	Hippocratic theory, Pythagorian theory
Homeopathic system of medicine	Law of similars
Siddha System of Medicine	Perfection in life or heavenly bliss
Ayurvedic System of Medicine	Panchamahabhuta theory, Tridosha theory

75. Ans (b) SUBERISED CELL

Suberised cell walls contain both polyaliphatic and polyaromatic domains which are supposedly cross-linked.

TEST	USES
Sudan Red G	<ul style="list-style-type: none"> • It is a yellowish red lysochrome azo dye. • It is soluble in fats and used for colouring of fats, oils, and waxes. • It is also used to stain polystyrene, cellulose, and synthetic lacquers.

119. Ans (d) Glycolysis or Embden-Meyerhof Pathway (EMP)

REACTION	REACTION CATALYZED BY	NUMBERS OF ATP
Glucose → Glucose-6-phosphate	Hexokinase/glucokinase	-1
Fructose 6-phosphate → Fructose 1,6 biphosphate	Phosphofructokinase	-1
Glyceraldehyde-3-phosphate → 1,3 Bisphosphoglycerate	Glyceraldehyde-3-phosphate dehydrogenase	+6
1,3 Bisphosphoglycerate → 3-Phosphoglycerate	Phosphoglycerate kinase	+2
Phosphoenolpyruvate to pyruvate	Pyruvate kinase	+2
TOTAL		10 - 2 = 8 ATP

120. Ans (a)

- Thiamine has a central role in energy-yielding metabolism, and especially the metabolism of carbohydrates.
- Thiamine pyrophosphate is an essential cofactor for enzymes that catalyze the oxidative decarboxylation of α -keto acids to form an acylated coenzyme A (acyl CoA).
- These include pyruvate dehydrogenase, α -ketoglutarate dehydrogenase and branched-chain α -keto acid dehydrogenase. These three enzymes operate by a similar catalytic mechanism.

121. Ans (c)

REDUCING SUGAR	NON-REDUCING SUGAR
Carbohydrate with free aldehyde or free ketone	Aldehyde or ketone group absent
They are hemiacetal or hemiketal form	They are in acetal or ketal form
Exhibit mutarotation	Not exhibit mutarotation
Do form osazones with phenyl hydrazine	Do not form osazones with phenyl hydrazine
Do not form oximes with hydroxylamines	Do not form oximes.
Example - Galactose, Glucose, Xylose, Glyceraldehyde, Fructose, Ribose, and	Example - Sucrose, Trehalose, Raffinose, Stachyose, Verbascose

122. Ans (c) TEST FOR AMINO ACIDS

NAME OF THE TEST	IDENTIFICATION OF SPECIAL GROUPS
Ninhydrin test	For all amino acids
Biuret test (CuSO ₄)	Protein
Xanthoprotein test.	Aromatic amino acid (FYW)
Hopkin's test Aldehyde test Ehrlich's test	Tryptophan
Folin's test Million's test	Tyrosine
Pauly's test	Histidine
Sakohuchi	Arginine

123. Ans (b)

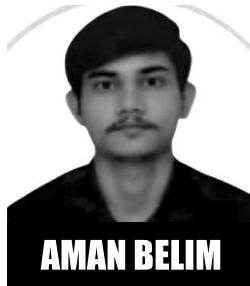
Heartiest congratulations



FOR THE REMARKABLE RESULT IN GPAT 2023



AIR-07



470+
Selection



AIR-47

AIR-99



AIR-143



AIR-150



AIR-211



AIR-250



AIR-257



AIR-297



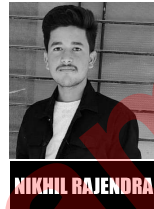
AIR-322



AIR-354



AIR-487



AIR-505



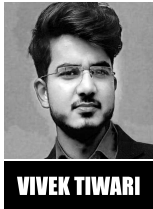
AIR-595



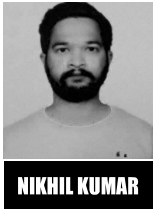
AIR-636



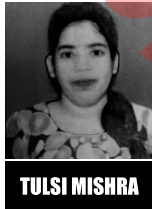
AIR-677



AIR-697



AIR-787



AIR-869



AIR-909



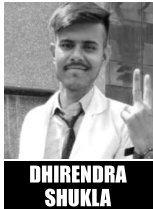
AIR-971



AIR-1052



AIR-1110



PHARMACY INDIA

Street No - 4 , Dayalpuram , Khatauli, District - M.Nagar,
Pin Code - 251201, U.P



Pharmacyindia.co.in



Pharmacyindia24@gmail.com



8006781759 , 6395596959