



PHARMACY INDIA

PRACTICE WORK SHEET - 2

Name of Candidate:-.....

Date:-.....

Mobile No.:-.....

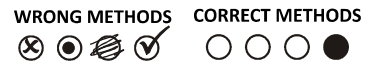
College Name:-.....

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 - 2

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

- The USP defines _____ as liquid preparations of vegetable drugs, containing alcohol as a solvent or as a preservative, or both, so made that, unless otherwise specified in an Individual monograph, each milliliter contains the therapeutic constituents of 1 gram of the standard drug that it represents
 - Tinctures
 - Extracts
 - Infusion
 - Fluid extracts
- Match List I with List II

List-I (Equipment)

 - Low shear mixer
 - Rotary tablet machine
 - Capsule filling machine
 - Compaction mill

List-II (Model/Trade Name/Type)

[P] Manesty Drycota
 [Q] Chilsonator (Fitzpatrick)
 [R] Slated Double Cone Mixer
 [S] Prosoly (JRS Pharma)
 [T] PCF 1200 Model (Pharma Land)

Choose the correct answer from the options given below

 - 1-[P], 2-[Q], 3-[S], 4-[R]
 - 1-[Q], 2-[R], 3-[P], 4-[S]
 - 1-[R], 2-[P], 3-[S], 4-[Q]
 - 1-[P], 2-[Q], 3-[S], 4-[R]
- The properties of solutions containing surface active agents change sharply over a narrow concentration range and are called as
 - Critical micelle concentration
 - Ionic concentration
 - Hydrogen ion concentration
 - Surface tension
- HEPA filters are defined as A or more efficient in removing, from the air. B particles generated by vaporization of the hydrocarbon Emory 3004
 - A-99.99% B-0.1 mm
 - A-99.00 % B-0.3 mm
 - A-99.99% B-0.3 mm
 - A-99.00 % B-0.1 mm
- Name the popular system for ocular delivery of pilocarpine. Based on membrane-controlled reservoir systems
 - Ocusert
 - Alzet pump
 - Progestasert
 - Nitrodur
- Identify the mismatched pair
 - Flow through cell- USP apparatus-4
 - Reciprocating cylinder- USP Apparatus-3
 - Paddle over disc- USP Apparatus-5
 - Reciprocating holder- USP Apparatus-6
- Neosorb is the trade name of
 - Sorbitol
 - Mannitol
 - Inositol
 - MCC
- Identify the condition for determination of bloom strength of gelatin
 - 4mm, 66.66 %w/w, 20°C, 24 hours
 - 4mm, 66.66 %w/w, 10°C, 24 hours
 - 4mm, 6.66 %w/w, 25°C, 20 hours
 - 4mm, 6.66%w/w, 10°C, 17hours
- The entire cycle of the capsule shell manufacturing lasts for
 - 30 minutes
 - 90 minutes
 - 45 minutes
 - 60 minutes
- Surfactants having an HLB value of more than 16 are useful as:
 - Solubilizing agents
 - Detergents
 - Antifoaming agents
 - w/o emulgents
- Unit of kinematic viscosity is:
 - Dynes/cm²
 - Stoke
 - Dynes.sec/cm
 - Poise

69. **Papaverine, Narcotine and Narceine belongs to**
 (a) Benzyl Isoquinoline ring system
 (b) Phenanthrene ring system
 (c) Yohimbine ring system
 (d) None of the above
70. **Here given is Plants and their respected family. Match the following with correct answer.**
 1. Iridaceae [P] Gaultheria
 2. Ericaceae [Q] Saffron
 3. Meliaceae [R] Ambergris
 4. Physeteridae [S] Neem
 5. Labitae [T] Tulsi
 (a) 1 - [P], 2 - [Q], 3 - [R], 4 - [S], 5 - [T]
 (b) 1 - [P], 2 - [Q], 3 - [S], 4 - [T], 5 - [R]
 (c) 1 - [Q], 2 - [P], 3 - [S], 4 - [R], 5 - [T]
 (d) 1 - [Q], 2 - [P], 3 - [R], 4 - [S], 5 - [T]
71. **A sample of Cinnamomum zeylanicum purchased from market was evaluated for its authenticity. It shows**
 (a) Presence of cork and cortex
 (b) Absence of xylem parenchyma
 (c) Absence of cork and cortex
 (d) Absence of phloem fibres
72. **Presence of sunken stomata found in**
 (a) Eucalyptus (b) Clove
 (c) Cinnamon (d) Dill
73. **The Aglycone of the cardiac glycoside synthesized through the biogenetic pathway of**
 (a) Shikimic acid
 (b) Hexose mono phosphate
 (c) Melonic acid
 (d) Mevalonic acid
74. **The difference in chemical structure of Digitoxigenin from that of Gitoxigenin is**
 (a) Presence of OH group at 16th position
 (b) Absence of OH group at 16th position
 (c) Presence of methyl group at 16th position
 (d) Absence of methyl group at 16th position
75. **The swelling factor of Isapgol husk is**
 (a) 8-11 (b) 3-8
 (c) 2-7 (d) 10-14
76. **Pancreatin contain enzymes namely**

- (a) Diastase, Pepsin, Trypsin
 (b) Protease, Amylase, lipase
 (c) Protease, Lipase, Trypsin
 (d) Pepsin, Trypsin, Lipase

PHARMACEUTICAL CHEMISTRY

77. **Desmethyl diazepam is an active metabolite, having an elimination half-life of more than 40 hours, of all the following drugs EXCEPT**
 (a) Flurazepam
 (b) Chlordiazepoxide
 (c) Clorazepate
 (d) Diazepam
78. **Which of the following method is used for the determination of osmotic pressure**
 (a) Beckmann's method
 (b) Berkeley and Hartley's method
 (c) Cottrell's method
 (d) Landsberger's method
79. **Which is NOT the colligative property**
 [P] Depression of freezing point
 [R] Elevation of vapour pressure
 [Q] Elevation of boiling point
 [S] Osmotic pressure
Choose the correct one of the following
 (a) [P], [Q] and [S] (b) [P] and [Q]
 (c) [P] and [S] (d) [R] only
80. **Substitution constant for Meta benzoic acids is denoted by**
 (a) σ_m (sigma m) (b) $pK_a(H)$
 (c) ρ_m (rho m) (d) pH_m
81. **Which of the following is NOT an intensive property**
 (a) Concentration (b) Density
 (c) Pressure (d) Volume
82. **A diuretic compound Cyclothiazide has a _____ substituent at C-3 of 1, 2, 4-Benzothiadiazine nucleus**
 (a) 5-Bornen-2-yl
 (b) 5-Norbornen-2-yl
 (c) 2-Bornen-5-yl
 (d) 2-Norbornen-5-yl
83. **Why trans-isomers are more stable than cis-isomers of compounds**
 (a) Due to less steric repulsion than cis isomers

- (b) 2.417×10^{-2}
 (c) 3.402×10^4
 (d) 1.042×10^4

107. Xenon arc lamp is source of light in

- (a) Colorimeter (b) IR
 (c) Flame photometer (d) UV

108. Red shift in UV spectroscopy is caused by

- (a) Increasing conjugation
 (b) Decreasing solvent polarity
 (c) Decreasing conjugation
 (d) Increasing solvent polarity

109. The C = O band present in cyclopentanone splits into two bands. This occurs due to

- (a) Presence of impurities
 (b) Fermi resonance
 (c) Coupled interactions
 (d) Interference by CO₂

110. The solvent not used for IR is

- (a) Chloroform
 (b) Carbon tetrachloride
 (c) Carbon disulphide
 (d) H₂O

111. What is Fourier Transformed in FT-NMR to obtain the spectrum

- (a) FID
 (b) Interferogram
 (c) Power spectrum
 (d) Digital filter

112. The distance between the centres of two adjacent peaks in a multiplet is called as

- (a) Spin-Spin coupling
 (b) Coupling constant
 (c) Spin-lattice coupling
 (d) Relaxation constant

113. The phenomenon of emission of light radiation by substance, when excitation occurs is called as

- (a) Fluorescence
 (b) Luminescence
 (c) Phosphorescence
 (d) Absorption

114. MALDI is a

- (a) Ionization source
 (b) Inlet system
 (c) Detector
 (d) Peak

OTHER SUBJECTS

115. Which of the following is false about HMP shunt

- (a) No ATP formation
 (b) Formation of NADPH
 (c) Synthesis of ribose-5-phosphate
 (d) Non-oxidative phase of HMP pathway is irreversible

116. All the following can determine the protein structure EXCEPT

- (a) Mass spectrometry
 (b) X-ray crystallography
 (c) High performance liquid chromatography
 (d) NMR spectroscopy

117. How many molecules of acyl-CoA are produced in beta-oxidation of palmitic acid

- (a) Six (b) Seven
 (c) Eight (d) Nine

118. Class of enzymes which use oxygen as a hydrogen acceptor are known as

- (a) Dehydrogenases
 (b) Oxidases
 (c) Cytochromes
 (d) Nicotinamide coenzymes

119. Match the following vaccines under Column I with their respective content under Column II

Vaccine	Content
1. OPV	[P] Killed bacteria
2. Typhoid (TAB)	[Q] Live bacteria
3. Tetanus	[R] Killed virus
4. BCG	[S] Live virus [T] Toxoid

Choose the correct answer form the options given below

- (a) 1 - [R], 2 - [T], 3 - [P], 4 - [Q]
 (b) 1 - [P], 2 - [Q], 3 - [T], 4 - [R]
 (c) 1 - [S], 2 - [P], 3 - [T], 4 - [Q]
 (d) 1 - [Q], 2 - [R], 3 - [S], 4 - [P]

120. Which of the following coenzymes is not derived from vitamins

- (a) CoA-SH
 (b) TPP
 (c) Pyridoxal phosphate (PLP)
 (d) Coenzyme Q

- Reye syndrome typically occurs after a viral illness, particularly an upper respiratory tract infection, influenza, varicella, or gastroenteritis, and is associated with the use of aspirin during the illness.
- Therefore 3-year-old child with the symptoms of influenza is contraindicated with the use of aspirin. This is due to increased risk of Reye's syndrome.

44. Ans (c) PERIPHERALLY ACTING MUSCLE RELAXANTS

CLASSES	SUB-CLASSES	DRUGS
Neuromuscular blocking agent	Nondepolarizing (Competitive blockers)	Short acting: Mivacurium Intermediate: Vacuronium, Atracurium, Cisatracurium, Rocuronium, Rapacuronium. Long acting: Pancuronium, Doxacurium, Pipecuronium, 8-Tubocurarine
	Depolarizing blockers	Succinyl choline (Suxamethonium), Decamethonium
Directly acting agent	Dantrolene sodium, Quinine	

45. Ans (b) GABA RECEPTOR

GABA RECEPTOR	AGONIST	ANTAGONIST
GABA _B receptor (Intrinsic ion channel → Increases Cl ⁻ conduction)	Baclofen	Saclofen

46. Ans (a)

- LA causing methemoglobinemia

B	A	L
Benzocaine	Prilocaine (Max)	Lignocaine

47. Ans (d)

GnRH agonist	GnRH antagonists
<ul style="list-style-type: none"> • Buserelin • Goserelin • Leuprolide • Nafarelin • Deslorelin • Triptorelin and histrelin 	<ul style="list-style-type: none"> • Cetrorelix • Ganirelix • Abarelix

48. Ans (d) CLASSIFICATION OF GLUCOCORTICOIDS

TYPES	EXAMPLES
Long-acting glucocorticoids	Dexamethasone, Betamethasone
Intermediate acting glucocorticoids	Prednisolone, Methyl prednisolone, Triamcinolone, Deflazacort
Short acting glucocorticoids	Hydrocortisone

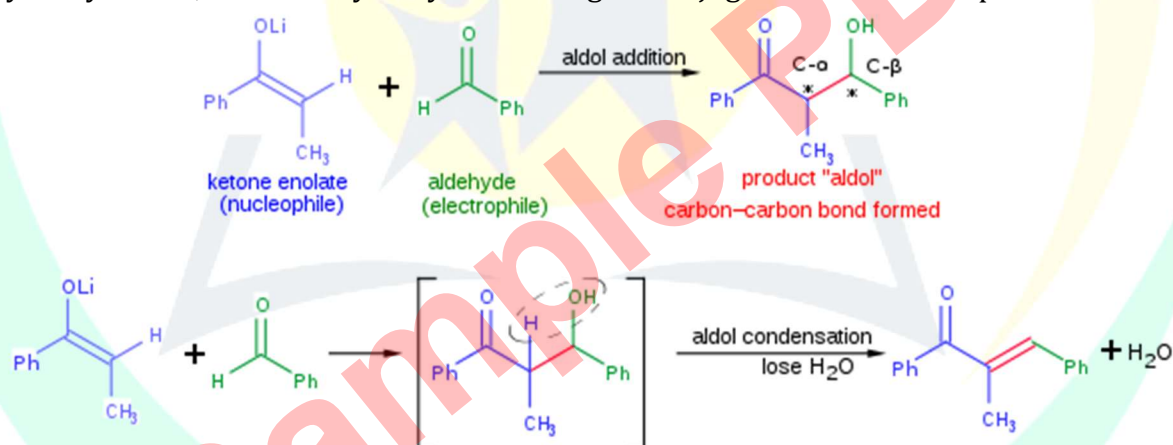
49. Ans (c) THYROID INHIBITORS

CLASSES	DRUGS
---------	-------

- **RULE 1:** If four atoms attached to the stereocenter are different, priorities depend on atomic numbers.
- **RULE 2:** If two atoms are isotopes of the same element, the atom of higher mass number has the higher priority
- **RULE 3:** If the relative positions of two groups cannot be determined as earlier, they are decided by a comparison of priority atom at the first point difference.
- **RULE 4:** If two carbon chains are attached to the stereogenic carbon the chain with a secondary carbon is of higher priority than the one with primary carbon.
- **RULE 5:** In case of double or triple bond both the atoms are considered to be duplicated or triplicated
- **RULE 6:** To assign R and S configuration the molecule has to be viewed with the lowest priority group at the back.
- **RULE 7:** When the lowest priority group is towards eyes interchanging of the position of any two groups twice at stereocenter retains its configuration and also puts group of lowest priority away from the viewer.

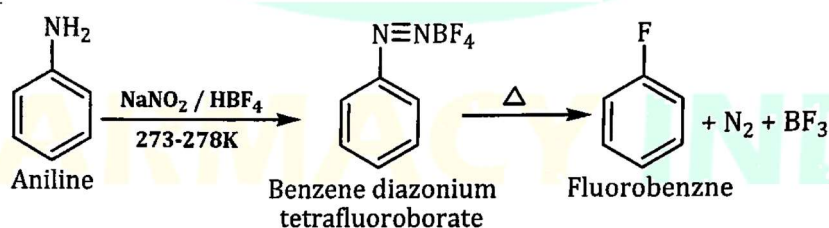
85. Ans (a) ALDOL CONDENSATION

- Aldol Condensation can be defined as an organic reaction in which condensation an enol or an enolate ion reacts with a carbonyl compound to form a 3-hydroxyaldehyde or β-hydroxyketone, followed by dehydration to give conjugated enone takes place.



86. Ans (a) BALZ SCHIEMANN REACTION

Balz Schiemann reaction is a chemical reaction in which primary aromatic amine is transformed into an aryl fluoride through diazonium tetrafluoroborate. Benzene diazonium chloride and HBF_4 , are reagents used in Balz Schiemann reaction.



87. Ans (b) RAOULT'S LAW

121. Ans (b)

Summary of the important enzymes useful for the diagnosis of specific diseases is tabulated below

S. NO.	ENZYMES	DISEASES OR DISORDERS
1.	Amylase	Acute pancreatitis
2.	Alanine transaminase	Acute hepatitis of viral or toxic Origin, jaundice and cirrhosis of liver
3.	Aspartate transaminase	Myocardial Infarction
4.	Alkaline phosphatase	Rickets, hyperparathyroidism, carcinoma of Bone, and obstructive jaundice
5.	Acid phosphatase	Cancer of prostate gland
6.	Lactate dehydrogenase	Myocardial infarction, Infective hepatitis, leukemia and muscular Dystrophy
7.	Creatine phosphokinase (CPK)	Myocardial infarction
8.	γ-Glutamyl transpeptidase	Alcoholism.

122. Ans (a)

SCIENTIST AND THEIR CONTRIBUTION

SCIENTIST	ASSOCIATED WITH
Louis Pasteur	Father of microbiology
Rebert Koch	Father of medical microbiology Discovered M. tuberculosis and V. cholera Introduced staining techniques methods of obtaining bacteria in pure culture on solid media Suggested Koch's postulate
Joseph Lister	Father of Aseptic surgery Proved that sepsis could be prevented by Hand hygiene
Antony Van Leeuwenhoek	Invented microscope (Father of compound microscope) Father of Bacteriology
Edward Jenner	Father of Immunology, Discovery of small pox vaccine

123. Ans (b)

VARIOUS PHASES OF BACTERIAL GROWTH CURVE				
	LAG	LOG	STATIONARY	DECLINE
Bacteria divide	No	Yes	Yes	No
Bacterial death	No	No	Yes	Yes
Total count	Flat	Raises	Raises	Flat
Viable count	Flat	Raises	Flat	Falls
Bacterial growth curve	Increase enzymes and metabolites,	Cell uniformly stained, active	Produce granules, spores, exotoxin,	Produce involution forms

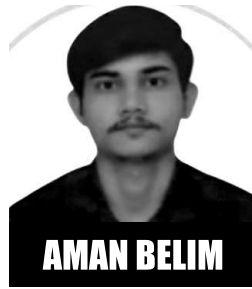
Heartiest congratulations



FOR THE REMARKABLE RESULT IN GPAT 2023



AIR-07



470+
Selection



AIR-47

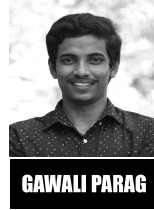
AIR-99



AIR-143



AIR-150



AIR-211



AIR-250



AIR-257



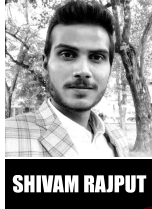
AIR-297



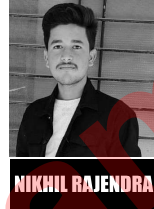
AIR-322



AIR-354



AIR-487



AIR-505



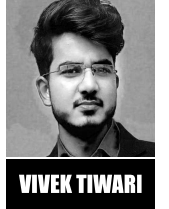
AIR-595



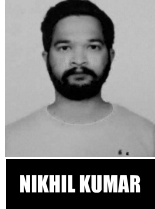
AIR-636



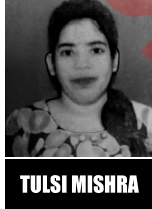
AIR-677



AIR-697



AIR-787



AIR-869



AIR-909



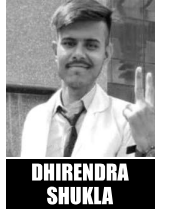
AIR-971



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