



PHARMACY INDIA

PRACTICE WORK SHEET - 3

Name of Candidate:-.....

Date:-.....

Mobile No.:-.....

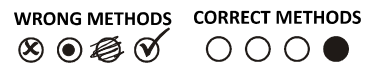
College Name:-.....

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 - 3

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

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PHARMACEUTICS

- When a solid form a gel more readily when gently shaken or otherwise sheared than when allowed to form the gel while the material is kept at rest, the phenomenon is known as
 - Thixotropy
 - Rheopexy
 - Negative rheopexy
 - Anti thixotropy
- The dispersion of coarse material by shearing in a narrow gap between and a rapidly rotating cone is caused by a static cone
 - Colloid Mill
 - Electrical Dispersion
 - Peptization
 - Ultrasonic Irradiation
- Which of the following is not a fundamental (primary) factor considered for selection of a location for the construction of pharmaceutical or chemical plant
 - Soll
 - Market for products
 - Labour supply
 - Raw materials
- The drug concentration between Minimum effective concentration (MEC) and maximum safe concentration (MSC) is called
 - Toxic range
 - Therapeutic index
 - Therapeutic ratio
 - Therapeutic range
- Human Serum Albumin has a molecular weight of
 - 34,000
 - 65,000
 - 44,000
 - 59,000
- Drug products that contain the same therapeutic moiety but as different salts, esters or complexes are called as
 - Therapeutic equivalents
 - Pharmaceutical equivalents
 - Pharmaceutical alternative
 - Therapeutic alternatives
- Fraction of administered dose (which may be in form of an ester of salt) of active drug is termed as
 - Activity factor
 - Formulation factor
 - Intrinsic factor
 - Salt factor
- Standards to be complied under D & C act -1940 for drugs imported, manufactured, stocked and exhibited for sale or distribution are covered under
 - Schedule M
 - Second Schedule
 - First Schedule
 - Schedule L
- The temperature dependence and the theory of viscosity is expressed by the following
 - Stern-Volmer equation
 - Arrhenius equation of chemical kinetics
 - Higuchi equation
 - Gibb's equation
- The 'Crenulation' effect on the cell wall is caused by _____ solutions and this effect is
 - Hypertonic, reversible
 - Hypotonic, reversible
 - Hypotonic, irreversible
 - Hypertonic, irreversible
- The growth of large particles at the expense of smaller ones, as a result of

53. Match the antibiotics their adverse effects

DRUG ADVERSE EFFECTS

1. Methicillin

2. Chloramphenicol

3. Linezolid

4. Sulphonamide

[P] Bone Marrow Depression

[Q] Haematuria

[R] Neutropenia & Thrombocytopenia

[S] Haemolysis

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

54. Match the following

DRUGS PHASE

1. Methotrexate [P] S-phase

2. Bleomycin [Q] G₂-phase

3. Paclitaxel [R] M-phase

4. L-asparaginase [S] G₁-phase

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

55. The Methotrexate toxicity can be reversed by

- (a) Thymidine & Folic acid
 (b) Thymidine & Folinic acid
 (c) Folic acid only
 (d) All of the above

56. All of the following are second generation antihistaminic EXCEPT

- (a) Desloratadine (b) Fexofenadine
 (c) Astemizole (d) Triprolidine

57. Fully humanized antibodies used in the treatment of RA

- (a) Bevacizumab (b) Adalimumab
 (c) Infliximab (d) Cetuximab

58. Following is an inhibitor of 5-lipoxygenase

- (a) Zafirlukast (b) Zileuton
 (c) Montelukast (d) None of the above

59. Which of the following is true for actions of prostaglandins, EXCEPT

- (a) Increase peripheral pulmonary and coronary resistance
 (b) Maintain patency of ductus arteriosus in neonates with CHF
 (c) Induction of labour
 (d) Promote healing of peptic ulcer

60. L-type calcium channel located in

- (a) Cardiac muscle
 (b) Smooth muscle
 (c) Skeletal muscle
 (d) All of the above

61. The drug that binds to AT₁ receptor with high affinity is

- (a) Pinacidil (b) Valsartan
 (c) Moexipril (d) Ranolazine

62. Direct renin inhibitor is

- (a) Losartan (b) Minoxidil
 (c) Aliskiren (d) Clonidine

63. Which is not correct regarding Olanzapine?

- (a) Weight loss
 (b) Agranulocytosis least
 (c) Causes least extrapyramidal side effects
 (d) Atypical antipsychotic

64. Antidepressant drug that can be used in nocturnal enuresis is

- (a) Imipramine (b) Fluvoxamine
 (c) Phenelzine (d) Bupropion

65. Which one of the following statements best describes the mechanism of action of Benzodiazepines

- (a) Benzodiazepines activate GABA_B receptors in the spinal cord
 (b) Their inhibition of GABA transaminase leads to increased levels of GABA
 (c) Benzodiazepines block glutamate receptors in hierarchical neuronal pathways in the brain
 (d) They increase the frequency of opening of chloride ion channels that are coupled to GABA_A receptors

66. Warfarin anticoagulants inhibits following coagulation factors

- (a) II, V, VII, IX (b) II, VII, IX, X
 (c) II, V, IX, X (d) II, IX, X, XIII

PHARMACOGNOSY

67. The major property of Ayurvedic herbs "Rasa" indicates

- (a) Taste
 (b) Post digestive effect
 (c) Potency
 (d) Physicochemical properties

- 113. In order for the nucleus to flip its spin in an applied magnetic field, what must be true**
- The nucleus processes in the applied field and absorbs circularly polarized light
 - The nucleus splits into degenerate energy levels and absorbs circularly polarized light
 - The bonds in the molecule must vibrate at the same frequency as the applied electromagnetic field
 - The bonds in the molecule process in the applied magnetic field
- 114. If the wavelength of emitted radiation is shorter than the absorbed radiation is called as**
- Rayleigh fluorescence
 - Stokes fluorescence
 - Anti-stokes fluorescence
 - Resonance fluorescence

OTHER SUBJECTS

- 115. If bio monosaccharides differ in their structure around a single carbon atom, they are called as**
- Epimers
 - Dimers
 - Trioses
 - Trimers
- 116. Which of the following is the example of "Invert Sugar"**
- Sucralose
 - Lactulose
 - Lactose
 - Sucrose
- 117. An akloptose can be converted in to aklohexose by**
- Rults degradation method
 - Wohl method
 - Kilkini-Fischer synthesis
 - Hoffmann degradation method
- 118. During the denaturation cycle in polymerase chain reaction the temperature is raised**
- 90-98°C
 - 60-68°C
 - 70-78°C
 - 80-88°C
- 119. The following gram-positive bacteria species is positive for the coagulase test (a test for the ability of bacteria to cause blood plasma to clot)**
- S. epidermidis*
 - S. aureus*
 - S. Saprophyticus*
 - S. lactis*
- 120. The risk of heart attack can be decreased by EXCEPT**
- Cesation of smoking
 - Lowered level of HDL
 - Control of plasma cholesterol
 - Lowered level of LDL
- 121. Deficiency of lysosomal α - 1,4 glucosidases cause**
- Tarui's disease
 - Von Gierke disease
 - Pompe disease
 - Her's disease
- 122. The infection that occur at a persistent, usually low level in a certain geographical area are called**
- Epidemic
 - Pandemic
 - Sporadic
 - Endemic
- 123. The process of eliminating the plasmids from bacteria is known as**
- Episome
 - Conjugation
 - Transduction
 - Curing
- 124. QRS complex indicates**
- Atrial repolarization
 - Atrial depolarization
 - Ventricular repolarization
 - Ventricular depolarization
- 125. Choose the correct option**
- [P] During Inspiration diaphragm contracted**
- [Q] During Expiration diaphragm relaxed**
- [P] is true but [Q] is false
 - [P] and [Q] both are true
 - [P] is false but [Q] is true
 - Both [P] and [Q] false

- Eye ointment containing soft paraffin, liquid paraffin and wool fat.
- Hydrophilic petroleum contains cholesterol stearyl alcohol white bees wax and white soft paraffin.

27. Ans (a)

- Oxidation involves the removal of electrons from a molecule.
- **The general principles that govern an oxidation reaction may be listed as follows.**
 - The presence of atmospheric oxygen (also air) promotes the rate of oxidation.
 - Since oxidation frequently involves free radicals, chain reactions occur. Light provides the necessary energy to initiate the oxidation process.
 - The presence of trace metals also accelerates the rate of oxidation.

28. Ans (c) FIRST ORDER KINETICS

Rate equation	Half life	Shelf life
$K = \frac{2.303}{t} \log \frac{a}{a-x}$ <p>a → initial concentration x → decrease in concentration t → time</p>	$t_{1/2} = \frac{0.693}{K}$	$t_{90} = \frac{2.303}{K} \log \frac{C_0}{0.9 C_0}$ <p>or</p> $t_{90} = \frac{0.1052}{K}$

29. Ans (b)

- Tooth bleaching is an oxidation process which alters the light absorbing or light reflecting nature of the tooth structure, increasing its perception of whiteness.
- Over a century hydrogen peroxide is widely used for tooth whitening and brilliance.
- Hydrogen peroxide acts by Interaction of free radicle with pigment molecule to produce the whitening effect

30. Ans (b)

- Soft paraffin base is a purified mixture of semisolid hydrocarbons obtained from petroleum heavy lubricating oil.
- It consists of a crystalline matrix embedded in a colloidal gel of liquid and amorphous hydrocarbons These are available in two varieties, yellow and bleached form (white). Both are translucent soft, greasy and odourless and having melting point range of 38 to 56°C.
- **Examples:**
 - Dianthrol ointment B.P.C
 - Ammoniated mercury tar ointment B.P.C
 - Salicylic acid ointment B.P.C
 - Coal tar and zinc ointment B.P.C

31. Ans (d)

There are four basic methods of process are used for the production of glass

METHOD	DESCRIPTION	EXAMPLES
Blowing	It uses the compressed air to form molten glass in the cavity of metal mold	Bottles and jars
Drawing	Molten glass is pulled through dies or rollers that shapes the soft glass	Ampules, cartilages, vials, Rods, tubes, sheet glass
Pressing	Mechanical force is used to press the molten glass against the side of a mold	-

Non-enteric Material	Hydroxypropyl methylcellulose, Methyl Hydroxyethyl cellulose, Ethylcellulose, Hydroxypropyl cellulose, Povidone, Sodium Carboxymethylcellulose. Polyethylene Glycols, Acrylate Polymer (Eudragit E)
Enteric material	Cellulose Acetate Phthalate (CAP), Hydroxypropyl methylcellulose Phthalate (HPMCP), Polyvinyl Acetate Phthalate (PVAP), Acrylate polymer (Eudragit L and S)

39. Ans (d) SOURCES OF ANTIBIOTICS

MICROORGANISM	ANTIBIOTICS
Fungi	Penicillin, cephalosporins, griseofulvin
Bacteria	Polymyxin B, Colistin, Bacitracin, Tyrothricin, Aztreonam
Actinomycetes	Aminoglycoside, tetracycline, chloramphenicol, macrolides, polyenes

40. Ans (a)

TERM	DESCRIPTION
Mastication	Mastication or chewing in the gastrointestinal (GI) tract is the first mechanical process by which food items are torn or cut into tiny pieces and crushed or ground into a soft bolus.
Deglutition	Deglutition or swallowing is the mechanism that transfers food from mouth into stomach.
Propulsion	Propelling of foodstuff along the length of the digestive tract.
Peristalsis	Propulsion movement observed in esophagus, upper part of GIT.
Segmentation	Propulsion and mixing movement in small and large intestine.

41. Ans (d) ROSACEA

- Rosacea is a skin condition that affect Adults between the age of 30-60.
- It is a chronic skin disorder which affects the central facial area. Onset during middle age adults of age of 30 60, with women being affected somewhat earlier than men.

42. Ans (b) LONG BONES

Long bones have a shaft and two epiphyses:

- The diaphysis consists primarily of compact bone with a central medullary canal, which includes a fatty yellow bone marrow.
- The epiphyses consist of an outer covering of compact bone with spongy (cancellous) bone inside.
- Long bones are almost completely covered by a vascular membrane, the periosteum.

43. Ans (d) MECHANISM OF ANTIFUNGAL AGENT 5-FLUOROCYTOSINSE

47. Ans (c) PROPERTIES OF OSMOTIC DIURETICS

- Pharmacologically inert
- Generally non-metabolizable
- Increase osmolality of plasma and tubular fluid
- Freely filtered at the glomerulus
- Not significantly reabsorbed by the renal tubules
- Examples of osmotic diuretics are intravenous mannitol

48. Ans (d)

- Volatile agents usually potentiate GABA-A receptors and two-pore K channels, whereas N-methyl-d-aspartate channels are blocked by the anaesthetic gases nitrous oxide.
- General Anaesthesia induced neuronal hyperpolarization was due to the activation of a particular K channel class called two-pore domain channels. It can induce both Presynaptic transmitter release inhibition and postsynaptic activation.

49. Ans (c) ACYCLOVIR EFFECTIVE IN FOLLOWING

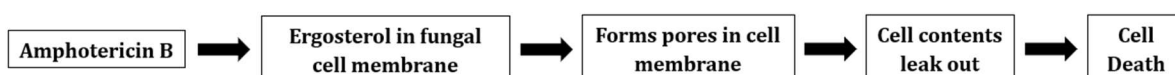
- Mucocutaneous H. simplex
- Chickenpox
- H. simplex encephalitis (type-1 virus)

50. Ans (a) COMPARATIVE PROPERTIES OF ANTIMALARIAL DRUGS

Drug	Pre- erythrocytic		Erythrocytic phase		
	Fal.	Viv.	Activity	Onset	Duration
Chloroquine	-	-	+	Fast	Long
Mefloquine	-	-	+	Int	Long
Quinine	-	-	+	Int	Short
Proguanil	+	-	+	Int	Long
Pyrimethamine	-	-	+	Int	Long

51. Ans (c) LUMINAL AMOEBOCIDES

Amides	8-Hydroxyquinolones	Antibiotics
Diloxanide, Nitazoxanide	Quiniodochlor (Iodochlorohydroxyquin), Diiodohydroxyquin (Iodoquinol)	Tetracycline Paromomycin

52. Ans (c) MECHANISM OF ACTION OF AMPHOTERICIN B**53. Ans (d) IMPORTANT ADVERSE EFFECTS OF ANTIBIOTICS**

NAME OF DRUG	ADVERSE EFFECT
Ampicillin	Hypersensitivity
Methicillin	Hematuria

Arrangement of electromagnetic radiation according to its frequency or according to its wavelength in a series is called as electromagnetic spectrum [EMS]

REGION		WAVELENGTH	FREQUENCY (HERTZ)
Cosmic rays		10^{-9} nm	
Gamma rays		Below 1 Å	10^{20} to 10^{24}
X rays		1 Å to 10 Å	10^{18}
U. V. rays	Far	10 n to 200 nm	10^{16}
	Near	200 nm to 400 nm	10^{15}
Visible rays		400 nm to 800 nm	10^{14}
Infra-red	Near	0.8 μ m to 2 μ m	10^{12} to 10^{14}
	middle	2 μ m to 15 μ m	
	Far	15 μ m to 1000 μ m	
Microwave		0.05 cm to 25 cm	10^{10} to 10^{12}
Radio frequency		Above 25 cm	10^6 to 10^{10}

94. Ans (b) DETECTOR S USED IN UV

- Barrier layer cell (photo voltaic cell)
- Photo tube (photo emissive)
- Photo multiplier tube (PMT)

95. Ans (a)



Base Value (Heteroannular diene) = 215 nm
 Ring Residue (3) = 15 nm
 Exocyclic double bond (2) = 10 nm
 Extended conjugation = 30 nm

Total Value = 270 nm

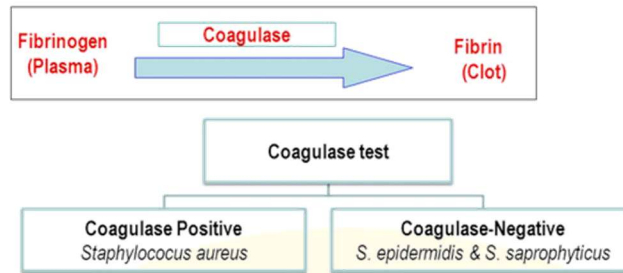
96. Ans (c) CRITERIA FOR A COMPOUND TO ABSORB IR RADIATION

- Change in dipole moment
- Correct wave length of incident radiation
 - A molecule absorbs radiation only when the frequency of the incident radiation is equivalent to the natural frequency of vibration of the part of the molecule.

97. Ans (c) INFRA RED REGION

REGION	WAVE NUMBER
Near IR	12500-4000 cm^{-1} (0.8-2.5 μ m)
Mid Infra-Red	4000-667 cm^{-1} (2.5 - 15 μ m)
Far infra-Red	667-50 cm^{-1} (15 - 200 μ m)

98. Ans (d) DIFFERENCE BETWEEN ACID-BASE BUFFERS

**120. Ans (b)**

- About 30 % of blood cholesterol and other fats is carried by HDL, those with low level a HDL (less than 40mg/ dl) has increased rate of heart diseases.
- HDL levels about >59 mg/c is considered as high level and those with high HDL levels ha low risk of heart diseases.

121. Ans (c) DISEASE CAUSED BY ENZYME DEFECIENCY

DISEASE	ENZYME AFFECTED	PRIMARY ORGAN INVOLVED
Andersen disease	Absence of branching enzyme	Liver
Cori's disease or Forbes' disease	Absence of glycogen debranching enzyme	Liver, Skeletal, Muscle, Heart
Her's disease	Deficiency of liver glycogen phosphorylase	Liver
McArdle syndrome	Absence of muscle glycogen phosphorylase	Skeletal muscle
Pompe disease	Deficiency of Lysosomal α -1, 4 glucosidase	Allorgan with lysosomes
Tarui's disease	Deficiency of Phosphofructokinase in muscle & erythrocytes	Muscle and RBC
Von Gierke disease	Deficiency of Glucose 6 phosphate	Liver or Kidney

122. Ans (d)

TERMS	DESCRIPTION	EXAMPLE
ENDEMIC	An infection that occurs at a persistent, usually low level in a certain geographical area	Malaria is another infectious disease that is endemic to Africa
EPIDEMIC	A situation where a disease spreads rapidly to a large number of people in a given population over a short time period	The rise in obesity globally (Often described as an "obesity epidemic")
PANDEMIC	The rapid spread of a transmissible infectious /communicable disease over several continents or worldwide	COVID 19

123. Ans (d)

The process of eliminating the plasmids from bacteria is known as curing.

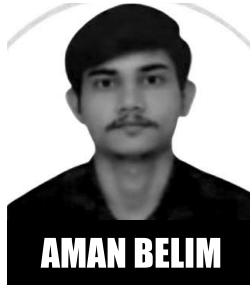
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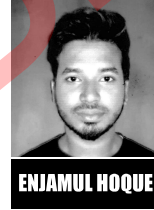
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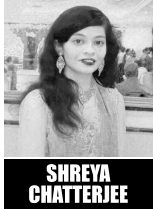
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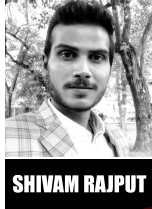
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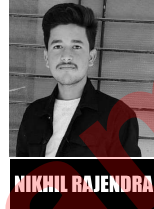
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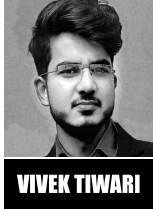
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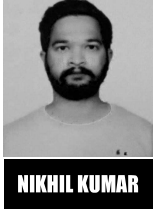
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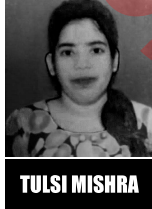
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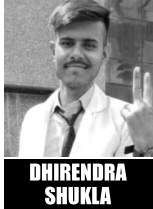
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AIR-1052



AIR-1110



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