



PHARMACY INDIA

PRACTICE WORK SHEET - 9

Name of Candidate:-.....

Date:-.....

Mobile No.:-.....

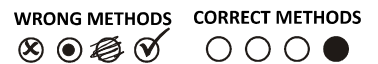
College Name:-.....

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 - 9

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

- Pitot tube measure _____ using a manometer**
 - Surface area
 - Liquidity
 - Velocity head
 - Pressure head
- What kind of substances can't permeate membranes by passive diffusion**
 - Lipid-soluble
 - Non-ionized substances
 - Hydrophobic substances
 - Hydrophilic substances
- Which among of the following variable is not a reason of errors during particle analysis by sieving method**
 - Sieve loading
 - Intensity of agitation
 - Duration of agitation
 - Size of the particles
- The time in minute at a specific temperature needed to kill a population of cell or spore is called**
 - D-value
 - F-value
 - Z-value
 - None of these
- Study the following statements**

[P] Fixatives in perfumes decrease rate of evaporation

[Q] Astringent is main ingredient in antiperspirant

[R] Melanin protects the breakdown of bones

[S] Hard water contains a lot of calcium and potassium salt

Choose the correct combination of statements

 - [P] and [Q] are correct
 - [R] and [S] are correct
 - [P] and [S] are correct
 - [Q] and [R] are correct
- "Stealth Liposomes" have been developed to**
 - Extend their half-life
 - Decrease the drug's toxicity
 - Enable site-specific drug delivery
 - Alter the size of vesicles
- What is the objective of trademark**
 - To claim exclusive properties of products or services
 - To claim innovation of products or services
 - To deal with market place of expressive ideas
 - To protect consumers from being misled
- How the wetting agent act in the suspension**
 - Increase contact angle between substance and solvent
 - Reduce contact angle between substance and solvent
 - No change in contact angle between substance and solvent
 - None of the above
- A pharmaceutical API is prone to environmental oxidation. To achieve a Better therapeutic action, its size needs to be reduced Method of choice for pulverization**
 - Ball milling
 - Hammer mill
 - Colloid mill
 - Rotary cutter mill
- Schulze - Hardly rule is for**
 - Lyophilic colloid
 - Hydrophilic colloid
 - Association colloid

24. **PVP is an example of**
 (a) Inorganic water-soluble osmogene
 (b) Organic polymer osmogene
 (c) Organic water-soluble osmogen
 (d) None of the above
25. **The air trapped by the swollen polymer confers buoyancy in.....type of GRDDS**
 (a) Non effervescence
 (b) Effervescence
 (c) Non-floating
 (d) None of the above
26. **Which is the most useful agent for the efficiency testing of HEPA filter**
 (a) Emery 3004
 (b) LAL reagent
 (c) Dibutyl phthalate
 (d) Dioctyl phthalate
27. **Water resistance of glass containers are tested by measuring**
 (a) Amount of alkali released into water
 (b) Amount of acid released into water
 (c) Estimation of silicate level
 (d) Turbidity
28. **Water for injection should have conductivity range of**
 (a) NLT 1 micro mho
 (b) NLT 2 micro mho
 (c) 10 micro mho
 (d) NMT 1 micro mho
29. **"Mikro-ACM pulverizer" is variants of mill**
 (a) Pin mill (b) Ball mill
 (c) Hammer mill (d) Roller mill
30. **Thermal Conductivities of Water**
 (a) 0.026 W/m K
 (b) 0.61 W/m K
 (c) 80 W/m K
 (d) 1.156 W/m K
31. **Narcotic drug and psychotropic drugs act, 1985, came into effect on**
 (a) 01/01/1985 (b) 14/11/1985
 (c) 26/1/1996 (d) 14/11/1986
32. **Indian Society of Blood Transfusion and Immunohematology is located at**
 (a) Pune (b) Mumbai
- (c) Chennai (d) New Delhi
33. **Approval for grant of license of drug testing facilities is issued in**
 (a) Form No. 39 (b) Form No.- 36
 (c) Form No.- 37 (d) Form No.- 38
34. **Speed at which the stomach contents empty into the intestine**
 (a) Gastric emptying time
 (b) Gastric emptying rate
 (c) Gastric emptying $t_{1/2}$
 (d) None of the above
35. **Under Non-sink condition dissolution order is**
 (a) Zero order (b) First order
 (c) Second order (d) Pseudo zero
36. **Most widely used diluent in directly compressible tablet is**
 (a) Starch (b) Avicel
 (c) Dextrose (d) Mannitol
37. **Identify the correct statement about Aspartame**
 (a) Non carcinogenic 200 times more sweeter than sugar
 (b) Carcinogenic 70 times sweeter than sugar
 (c) Carcinogenic 200 times more sweeter than sugar
 (d) Carcinogenic, 500 times more sweeter than sugar
38. **Pellicle formation is associated with capsule when they are stored at**
 (a) 45°C temperature & 75% RH
 (b) 35°C temperature & 65% RH
 (c) 25°C temperature & 60% RH
 (d) None of the above

PHARMACOLOGY

39. **Mannitol is not used in**
 (a) Acute renal failure
 (b) Pulmonary edema
 (c) Cerebral edema
 (d) All of these
40. **Digitalis given to atrial flutter often produces**
 (a) Atrial fibrillation
 (b) Atrial tachycardia
 (c) Atrial asystole
 (d) Atrial bigeminy

30. Ans (b) THERMAL CONDUCTIVITIES OF COMMON MATERIALS

MATERIAL	THERMAL CONDUCTIVITIES (W/M K)
Copper	400
Aluminum	240
Cast iron	80
Water	0.61
Air	0.026

31. Ans (b)

S. NO.	ACT	PASSED	RULE	CAME INTO FORCE	AMENDMENTS
1.	Opium act	1857	-----	-----	-----
2.	Poison act	3 rd September 1919	-----	-----	-----
3.	Drug and cosmetic act	1940	1945	10 April 1945	1982, 1988, 2010
4.	Pharmacy act	1948	-----	4 March 1948	1959, 1951, 1954, and 1976
5.	Narcotic and psychotic act	1985	1985	14 November 1985	-----

32. Ans (a)

INSTITUTE	LOCATION
Indian Society of Blood Transfusion and Immunohematology	Pune
Central Drug Testing Laboratory	New Delhi
National Institute of Communicable Disease (Polio)	New Delhi
Central Drug Laboratory	Kolkata
BCG Vaccine Laboratory	Chennai
Central Drug Research Institute	Lucknow

33. Ans (a)

FORM NUMBER	USED FOR
Form No.- 39	Report of test or analysis by approved institution
Form No.-36	Application for grant/renewal for on drugs/cosmetics or raw materials used in manufacture thereof on behalf of licensee for manufacture for sale of drugs/cosmetics.
Form No.- 37	Approval for the grant/renewal for carrying out tests carrying out tests on drugs/cosmetics or raw materials used in manufacture thereof on behalf of licensee for manufacture for sale of drugs/cosmetics.
Form No.- 38	Certificate of Renewal for carrying out tests on drugs/cosmetics or raw materials used in manufacture thereof on behalf of licensee for manufacture for sale of drugs/cosmetics

69. Ans (d) LEAF CONSTANTS OR DIAGNOSTIC CHARACTERS OF LEAVES

TERMS	MEANING
Palisade ratio	Numbers of palisade cell under each epidermal cell.
Vein-termination	Number of veinlet termination per sq. mm of the leaf between midrib and margin
Vein islet number	Number of vein Islet per sq. mm of the leaf surface between midrib and margin
Stomatal number	Average number of stomata per sq. mm of epidermis
Stomatal index	It is the percentage which the number of stomata form to the total number of epidermal cell $S.I = S/E + SX 100$

70. Ans (a) GARLIC, LEHSUN, RASUN, BELLULI, VALLAIPPUNDU

BIOLOGICAL SOURCE	CHEMICAL CONSTITUENTS	USES
Lehsun consists of the fresh compound bulb of <i>Allium sativum</i> belonging to the family Liliaceae.	<ul style="list-style-type: none"> • Alliin, a sulphur containing amino acid. • Allicin-allyl sulphide. • Polysulphide responsible for the unpleasant smell of the oil • Allyl propyl disulphide. 	<ul style="list-style-type: none"> • Analgesic • Antibacterial (due to allicin) • Diuretic • Used in hypertension and atherosclerosis (thickening of arterial wall). • Stimulant, Carminative, gastric stimulant and aids in digestion & absorption of food. • Tuberculosis and whooping cough. • Piles and duodenal ulcer.

71. Ans (a)

The biosynthesis of colchicine involves the amino acids phenylalanine and tyrosine as precursors.

72. Ans (c)

- *Strychnos potatorum* is a substitute for nux vomica.
- *Strychnos potatorum* seeds which are used in india for purifying water.
- *Strychnos tieute*, which is sometimes regarded as a variety of *Strychnos ignatti*, is found in Indonesia and contains only 1.5% strychnine.
- *Strychnos lucida* from Australia and Thailand contains brucine as a major alkaloid.

73. Ans (a) AMBERGRIS, GREY AMBER, AMBER GREASE

BIOLOGICAL SOURCE	CHEMICAL CONSTITUENTS	USES
It is the pathological product formed in the intestinal tract of the sperm whale <i>Physeter catodon</i> belonging to the family <i>Physeteridae</i>	Ambrein (triterpene alcohol) and f Epicoprostanol and Coprostanone	Perfumery

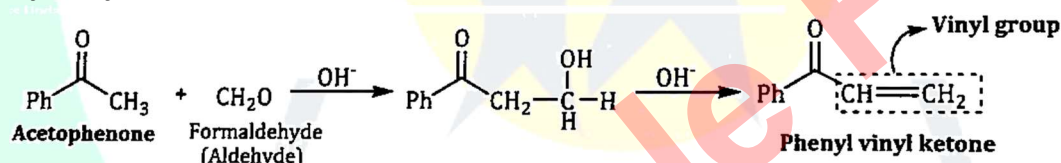
	arrangement, but different spatial arrangements
Arrangement of atoms is different from one isomer to the other	Arrangement of atoms is the same
Chirality is absent	Chirality is present
Have very different chemical and physical properties	Have very relatively close chemical and physical properties

88. Ans (b)

- A chiral molecule or ion exists in two stereoisomers that are mirror images of each other, called enantiomers; they are often distinguished as either “right-handed” or “left-handed” by their absolute configuration or some other criterion.
- The two enantiomers have the same chemical properties, except when reacting with other chiral compounds.
- They also have the same physical properties, except that they often have opposite optical activities.

89. Ans (b)

The carbonyl compounds having α -hydrogen atoms such as acetaldehyde and Phenylacetaldehyde undergo Aldol condensation. When acetophenone and formaldehyde undergo aldol condensation to form phenyl vinyl ketone.

**90. Ans (a)**

- A thermodynamic system containing some quantity of matter has within itself a definite quantity of energy.
- This energy includes not only the translation kinetic energy of the molecules but also other molecular energies such as rotational vibrational energies.
- The kinetic and potential energy of the nuclei and electrons within the individual molecules also contribute to the energy of the system.
- In an isothermal process, temperature of a system remains constant while in an adiabatic process, temperature must change.

91. Ans (b)

A process carried in a vessel whose walls are perfectly insulated so that no heat can pass through them, is said to be adiabatic. For adiabatic expansion $q=0$ than according to following relation

$$DS=q/T, DS = \text{ZERO}$$

92. Ans (c) Formation of BF_3

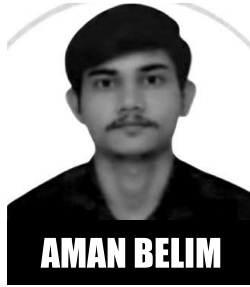
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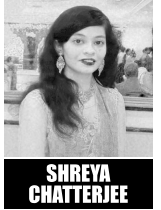
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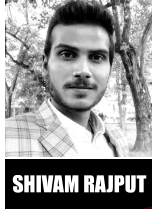
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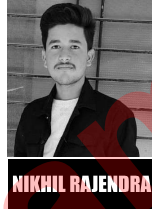
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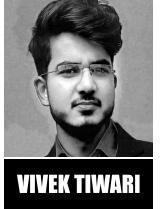
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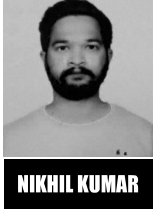
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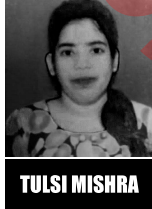
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AIR-697



AIR-787



AIR-869



AIR-909



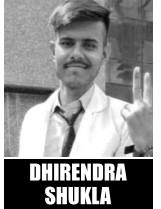
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AIR-1052



AIR-1110



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

 Pharmacyindia.co.in  Pharmacyindia24@gmail.com

 8006781759 , 6395596959