



MISSION PHARMACIST

PREVIOUS YEAR OBJECTIVE BOOK

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PHARMACY INDIA PUBLICATION

MISSION PHARMACIST

PREVIOUS YEAR OBJECTIVE BOOK

AS PER THE LATEST EXAM PATTERN

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PHARMACIST SYLLABUS

PHARMACEUTICS

1. Introduction to Pharmacopoeias
2. Pharmaceutical Packaging
3. Pharmaceutical Aids & Preservatives
4. Metrology
5. Packaging of pharmaceuticals
6. Unit Operations
7. Sterilization
8. Study of immunological products like sera, vaccines, toxoids & their preparations.
9. Dispensing Pharmacy
10. Dispensed Medications
I. Solid Dosage Forms
II. Liquid oral Dosage
III. Semi-Solid Dosage Forms
11. Dental and cosmetic preparations
12. Sterile Dosage forms
13. Basic structure, layout, sections, and activities of pharmaceutical manufacturing plants
14. Quality Control and Quality Assurance
Novel Drug Delivery System

PHARMACEUTICAL CHEMISTRY

1. Sources and types of errors, Impurities in Pharmaceuticals
2. Volumetric and Gravimetric Analysis
3. Acids, bases and buffers
4. Antioxidants
5. Gastrointestinal agents
6. Topical Agents
7. Dental Products
8. Inhalants
9. Respiratory stimulants

10. Expectorants and Emetics
11. Antidotes
12. Inorganic official compounds of Iron, Iodine and Calcium, Ferrous Sulphate and Calcium Gluconate.
13. Radiopharmaceuticals and contrast media
14. Quality control of Drugs and pharmaceuticals
15. Identification tests for cations and anions as per Indian Pharmacopoeia.
16. Introduction to the nomenclature of organic chemical systems with particular reference to hetero-cyclic system containing up to 3 rings.
17. Antiseptics and Disinfectants
18. Sulphonamides
19. Antileprotic Drugs
20. Anti-tubercular Drugs
21. Antimoebic and Anthelmintic Drugs
22. Antibiotics, Antifungal agent
23. Antimalarial Drugs
24. Tranquilizers
25. Hypnotics
26. General Anaesthetic
27. Antidepressant Drugs
28. Analeptics
29. Adrenergic drugs
30. Adrenergic antagonist
31. Cholinergic Drugs
32. Cholinergic Antagonists
33. Diuretic Drugs
34. Cardiovascular Drugs
35. Hypoglycaemic Agents
36. Coagulants and Anti coagulants
37. Local Anaesthetics
38. Histamine and Anti-histaminic Agents
39. Non-steroidal anti-inflammatory agents
40. Thyroxine and Antithyroid
41. Diagnostic Agents
42. Anticonvulsants

PHARMACIST SYLLABUS

5. Compounding in Hospitals	13. Pharmaceutical care
6. Bulk compounding	14. Medication Therapy Management, Home Medication Review
7. IV admixture services and incompatibilities	15. Clinical laboratory tests
8. Total parenteral nutrition	16. Poisoning
9. Radio Pharmaceuticals	17. Drugs and Poison Information Centre and their services
10. Application of computers in Hospital Pharmacy Practice	18. Pharmacovigilance
11. Clinical Pharmacy	19. Medication errors
12. Daily activities of clinical pharmacists	20. Drug Interactions

NON-PHARMA

S.NO.	SUBJECT	SYLLABUS
1.	General Intelligence & Reasoning	Analogies, Coding-Decoding, Relationships, Jumbling, DI & Sufficiency, Similarities & Differences, Classifications, Statement- Argument & Assumptions, Alphabetical Series, Mathematical Operations, Syllogisms, Venn Diagram, Conclusion, Decision Making, Numerical Series, Analytical Reasoning, Directions
2.	General Aptitude/ General Mathematics	Number System, Decimals, LCM, Ratio & Proportion, Mensuration, Time & Distance, Profit & Loss, Geometry & Trigonometry, Square Root, Calendar & Clock, BODMAS, Fractions, HCF, Percentages, Time & Work, SI- CI, Algebra, Elementary Statistics, Age Calculations, Pipes & Cisterns
3.	General Knowledge	Knowledge of Current affairs, Indian geography, culture and history of India including freedom struggle, Indian Polity and constitution, Indian Economy, Sports, Awards, General scientific and technological developments etc.
4.	General Science	Physics, Chemistry and Maths (Based on CBSE Class 10th)
5.	Knowledge of Computers	Basic Computer Fundamentals, Operating Systems (OS), Microsoft Office Tools, Internet and Networking, Computer Security and Cybersecurity, Computer Applications in Healthcare, Basic Programming Concepts, Common Computer Shortcuts and Commands, Digital Literacy and Recent Trends, Troubleshooting Basics, Computer Terminologies.
6.	General English	Reading Comprehension, Cloze Test, Spellings, Phrases and Idioms, One Word Substitution, Sentence Correction, Error Spotting, Fill in the Blanks, Para Jumbles, Active/Passive, Narration
7.	General Hindi	व्याकरण, समानार्थी और विलोम शब्द, शब्दावली, मुहावरे और वाक्यांश, वाक्य संरचना, समझ

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General Ability

- Who among the following was posthumously awarded the Padma Vibhushan in January 2025 for his or her contributions to literature and education?
(a) MT Vasudevan Nair (b) Osamu Suzuki
(c) Sharda Sinha (d) Kumudini Lakhia
- For image formation by a concave mirror, which of the following statements is true?
(a) An object placed at the focus forms a highly diminished image.
(b) At the centre of curvature, the size of the image is the same as the size of the object.
(c) The nature of the image is real and erect when the object is at the centre of curvature.
(d) The size of the image is enlarged when the object is placed at infinity
- A vendor sold 20 chocolates for a rupee, thereby gaining 35%. How many did he buy for a rupee?
(a) 29 (b) 31 (c) 33 (d) 27
- Find the circumference (in m) of the largest circle that can be inscribed in a rectangle whose dimensions are given as 49 m and 94 m. (take $\pi = 22/7$)
(a) 163 (b) 159 (c) 154 (d) 149
- A and B can together complete a piece of work in 25 days. They worked together for 20 days and then B left. After another 10 days, A completed the remaining work. In how many days can A complete the work alone?
(a) 60 (b) 50 (c) 54 (d) 40
- Which of the following sexual maturation changes occur in females?
(a) The breasts begin to grow
(b) Stop of the menstrual cycle
(c) Skin decreased oil production
(d) Narrowing of hips
- Which of the following correctly lists the sections of the Western Coastal Plains in India?
(a) Konkan Coast, Karnataka Coast and Malabar Coast
(b) Konkan Coast, Coromandal Coast and Vembanad Coast
(c) Karnataka Coast, Eastern Coast and Malabar Coast
(d) Northern Circar Coast, Malabar Coast and Coromandel Coast
- Which of the following statements about sensitivity in plants is INCORRECT?
(a) Plants have specialized Nervous tissues for conducting information.
(b) Chemotropism is the growth response of plants to chemical stimuli in their environment.
(c) Plants exhibit phototropism by growing towards the light source.
(d) Thigmotropism is the response of plants to touch or physical contact.
- What is the work done in moving a charge of 10 C between two points with a potential difference of 14 V?
(a) 140 J (b) 10 J (c) 14 J (d) 1.4 J
- The Dachigam Sanctuary, located in Jammu and Kashmir in India, is home to which of the following species?
(a) Hippopotamus
(b) Snow leopard
(c) Indian bison
(d) One-horned rhinoceros
- Identify the element whose given valency does not match its typical valency.

Element	Atomic number	Given valency
Be	4	2
Ne	10	0
Al	13	3
F	9	7

(a) F (b) Al (c) Be (d) Ne

- The angle of deviation for a ray of light after passing through a prism is _____.
(a) Indeterminate
(b) The angle between the emergent ray and incident ray
(c) The angle of the prism
(d) The angle between the incident ray and one of the sides of the prism
- Which of the following sacrificed their lives for the protection of Khejri trees?
(a) Sunita Willium
(b) Sunita Devi
(c) Savita Devi Bishnoi
(d) Amrita Devi Bishnoi

28. 18 is related to 107 following a certain logic. Following the same logic, 21 is related to 125. To which of the given options is 14 related, following the same logic?
(Note: Operations should be performed on the whole numbers, without breaking down the numbers into their constituent digits. E.g., 13 Operations on 13 such as adding/subtracting/multiplying to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)
(a) 91 (b) 87 (c) 83 (d) 95
29. The Indian government launched a new digital health initiative in 2025, to improve healthcare accessibility and interoperability of medical data. What is the name of this initiative?
(a) National Health Stack Expansion
(b) Digital India Healthcare 2025
(c) Ayushman Bharat Digital Mission 2.0
(d) Bharat AI Health Grid
30. Which one of the following monuments, constructed during the Mughal rule, is situated on the bank of river Yamuna?
(a) Panch Mahal (b) Akbar's Tomb
(c) Taj Mahal (d) Jama Masjid
35. The study of the poisonous effect of drugs is known as:
(a) Toxicology
(b) Pharmacy
(c) Pharmacotherapeutics
(d) Clinical pharmacology
36. Which of the following is a plasma volume expander?
(a) Human Albumin (b) Heparins
(c) Apixaban (d) Vitamin K
37. How is bioequivalence statistically evaluated?
(a) Kaplan-Meier analysis
(b) Analysis of variance (ANOVA)
(c) Chi-square test
(d) Pearson correlation
38. Ethylene oxide gas sterilisation requires:
(a) Immediate use post-sterilisation
(b) High humidity and sealed chambers
(c) No aeration period
(d) Direct sunlight exposure
39. Global acceptance of herbal drug standards is facilitated by :
(a) Traditional medicine registries
(b) ICH harmonization efforts
(c) Mutual recognition agreements
(d) National pharmacopoeias

Pharmacy

31. Which structure prevents the backflow of stomach acid into the esophagus?
(a) Ileocecal valve (b) Sphincter of Oddi
(c) Pyloric sphincter (d) Lower esophageal sphincter
32. A person is eligible for pharmacy registration if she or he:
(a) has been engaged in the dispensing of drugs for not less than six months
(b) has a degree or diploma in pharmacy from an Indian University or a State Government
(c) has been engaged in the compounding of drugs in a hospital or dispensary for not less than three months
(d) has been engaged in the compounding of drugs in a hospital or dispensary for not less than six months
33. Which of the following is/are used to make a homogeneously dispersed aerosol preparation?
(a) Detergents (b) Binder
(c) Surfactants (d) Glidant
34. Hydrogen peroxide vapour sterilisation differs from ethylene oxide in that it:
(a) Is non-flammable
(b) Cannot sterilise implants
(c) Leaves no toxic residues
(d) Requires higher temperatures
40. Cidofovir is primarily used to treat:
(a) Herpes simplex virus infections
(b) Cytomegalovirus (CMV) retinitis
(c) Influenza A
(d) Hepatitis C
41. The most common type of kidney stone is composed of:
(a) Calcium oxalate (b) Cystine
(c) Struvite (d) Uric acid
42. Serotonin syndrome is most likely caused by combining Selective Serotonin Reuptake Inhibitors with:
(a) Diuretics
(b) Non-steroidal anti-inflammatory drugs
(c) Monoamine oxidase inhibitors
(d) Beta-blockers
43. Quaternary ammonium compounds (QACs) are:
(a) Anionic surfactants (b) Cationic surfactants
(c) Biguanides (d) Phenolic derivatives
44. The volume capacity of a size 1 hard capsule is approximately:
(a) 10.7 mL (b) 0.5 mL (c) 1.0 mL (d) 1.5 mL
45. Feedback inhibition is also termed as:
(a) latent enzyme activation
(b) Compartmentation
(c) initial product inhibition
(d) end product inhibition



1. Ayushman Bharat Programme was launched in -
(a) 2005 (b) 2012 (c) 2015 (d) 2018
2. Match column I of nutritional programmes with their objectives in column II:

Programme	Objectives
1. Vitamin A prophylaxis programme	a. Distribution of Iron and folic Acid tablets
2. Prophylaxis programme against nutritional anemia	b. Control of Blindness
3. National Goitre Control Programme	c. Provides food supplements to children
4. Balwadi nutritional Programme	d. Control of Iodine deficiency

Choose the most appropriate option from below:

- (a) 1-a, 2-b, 3-c, 4-d (b) 1-b, 2-c, 3-d, 4-a
(c) 1-b, 2-a, 3-d, 4-c (d) 1-c, 2-d, 3-b, 4-a
3. The _____ programme provides _____ support to pregnant woman, lactating mother, preschool children and adolescent girl.
(a) Special Nutrition mental
(b) ICDS, Nutritional
(c) Balwadi nutrition, moral
(d) Mid-day meal, financial
 4. Which was the first vaccine introduced in India?
(a) Rotavirus (b) Hepatitis B
(c) Polio (d) BCG
 5. Which is not a milestone of the National AIDS Control Programme-(NACP-I) activities?
(a) To slow down the spread of HIV infection.
(b) To focusing on behaviour change, increased decentralization and NGO involvement.
(c) To National AIDS control Board constituted.
(d) NACO set up.
 6. According to recent quarterly NHM MIS report (March 2024), which of the following areas are included in high focus states of Non-North East?
(a) Goa, Gujarat, Haryana
(b) Delhi, Andaman and Nicobar Islands
(c) Rajasthan, Uttar Pradesh, Madhya Pradesh
(d) Tamil Nadu, Kerala, Telangana
 7. Another name of mapping Software is:
(a) Data visualization software
(b) Geographic Information System
(c) Weather Prediction System
(d) Spreadsheet Analysis

8. _____ is another term for antivirus software.
(a) Anti-Malware
(b) Malware detection program
(c) Spyware eliminator
(d) Network protection software

9. Match the following:

Inventor	Invention
i. Charles Babbage	a. Punched Cards
ii. Herman Hollerith	b. Difference Engine
iii. Blaise Pascal	c. Calculator for multiplication.
iv. Baron, Gottfried	d. Mechanical adding machine

Choose the most appropriate option from below:

- (a) i-b, ii-a, iii-d, iv-c (b) i-a, ii-d, iii-b, iv-c
(c) i-b, ii-c, iii-d, iv-a (d) i-d, ii-c, iii-a, iv-b
10. What is the term used for the word or phrase entered in the search box of a search engine?
(a) Keyword (b) Homepage
(c) Address (d) Web Address
 11. Ammonium chloride is used as -
(a) Antiseptic (b) Expectorant
(c) Analgesic (d) Antipyretic
 12. The macrolide antibiotic contains:
(a) Naphthalene nucleus
(b) Phenanthrene nucleus
(c) Lactone ring
(d) Lactam ring
 13. Ring system present in methotrexate:
(a) Pyridine (b) Purine
(c) Pyrimidine (d) Imidazole
 14. Chemically Aspirin is _____.
(a) Salicylic Acid (b) Indole Acetic Acid
(c) Propionic Acid (d) Anthranilic Acid
 15. Maximum Potassium loss is caused by which Diuretics?
(a) Acetazolamide (b) Thiazide
(c) Furosemide (d) Spironolactone
 16. What type of side effect is most commonly observed in beta-lactam antibiotics? (Choose the most appropriate option from below)
(a) Hearing loss (b) Yellowing of teeth
(c) Aplastic anaemia (d) Allergic reaction
 17. Which radioactive isotopes is used as diagnostic and therapeutic agent in thyroid conditions and myxedema?
(a) I-131 (b) Cr-51 (c) Fe-59 (d) Co-57

131. Which of the following statements about emetics is correct? (Choose most appropriate answer)
- Salt water and mustard are traditionally used as emetics but excessive salt intake can be harmful.
 - Copper sulfate was historically used as an emetic but is now considered too toxic for this purpose.
 - Hydrogen peroxide is used an emetic in veterinary practice.
 - All of these
132. What is the purpose of Clark's Process in water treatment? (Choose the most appropriate option from below)
- To remove permanent hardness of water.
 - To remove temporary hardness of water by adding slaked lime.
 - To disinfect water using slaked lime.
 - To increase the acidity of water.
133. What is the chemical formula of Calcium Gluconate ?
- $\text{CaC}_6\text{H}_5\text{O}_7$
 - $\text{C}_{12}\text{H}_{22}\text{CaO}_{14}$
 - $\text{CaCl}\square$
 - CaCO_3
134. For the equilibrium reaction $\text{PCl}_5 \rightleftharpoons \text{PCl}_3 + \text{Cl}_2$ at 500K, the equilibrium concentrations are: $[\text{PCl}_5] = 1.41\text{M}$, $[\text{PCl}_3] = 1.59\text{ M}$, $[\text{Cl}_2] = 1.59\text{ M}$ What is the value of the equilibrium constant K_c ?
- 1.80
 - 1.00
 - 1.79
 - 2.00
135. What is Paget's disease characterized by ? (Choose the most appropriate option from below)
- Faulty iron metabolism leading to anemia.
 - Faulty calcium metabolism causing decalcification, bone softening and deformity.
 - Vitamin C deficiency resulting in scurvy.
 - Vitamin D deficiency causing rickets.
136. Which radiopharmaceutical product is used for the diagnosis of diseases of the placenta and study of cardiac blood pool?
- Ammonium bromide injection
 - Indium chloride
 - Calcium chloride solution.
 - Ferric chloride solution
137. What is the mechanism of action of Clonidine used in the treatment of hypertension?
- α_1 -Agonist
 - α_2 -Agonist
 - α_1 -Blocker
 - β -Blocker
138. To which category of drugs does Busulfan belong?
- Antibiotic
 - Alkylating agent
 - Antiviral
 - Antimetabolite
139. Vincristine and Vinblastine are the chemical constituents of:
- Ephedra
 - Ginseng
 - Vinca
 - Rhubarb
140. What is use of Rauwolfia?
- Analgesic
 - Antihypertensive
 - Expectorant
 - Laxative
141. Which of the following muscles are voluntary?
- Smooth muscles
 - Skeletal muscles
 - Cardiac muscles
 - Otic muscles
142. The average pH of Blood is _____
- 6.0
 - 6.4
 - 7.0
 - 7.40
143. Who proposed the lock and key model of Enzyme?
- Alfred Nobel
 - Koshland
 - Emil Fischer
 - Alice Ball
144. The specific gravity of lipid is _____
- 1.0
 - 1.5
 - 0.5
 - 0.8
145. The monomer unit of protein is _____
- Nucleic acid
 - Acetic acid
 - Amino acid
 - Sulphuric acid
146. Due to the spread of the plague in Pune at which place was the first session of the congress held?
- Calcutta
 - Bombay
 - Madras
 - Lucknow
147. Where was 'Rajasthan sewa Sangh' founded by Vijay Singh Pathik in 1919?
- Wardha
 - Ajmer
 - Delhi
 - Calcutta
148. Raja Kalyanji of Diggipuri in Malpura Tehsil of Tonk District is considered whose incarnation?
- Krishna
 - Ram
 - Vishnu
 - Shiva
149. The Headquarter of 'Wildlife Crime Control Bureau' is located at _____
- New Delhi
 - Mumbai
 - Patna
 - Kolkata
150. Meja Dam is built on the river _____
- Khari
 - Kothari
 - Gambhiri
 - Parvati

1. In a certain code language, the codes are as follows:

Words	Codes
(1) NATION	a g v n a b
(2) REMOTE	r z g r b e
(3) STAIR	e f g n v
(4) FORMAL	b e n s y z
(5) COMMON	z a b z p b
(6) FOR	e b s

Based on the above coding pattern, answer the following: What is code for 'SCREEN'?

- (a) fepcra (b) fpersa (c) fpreba (d) fpcra
2. The word drug is believed to have been derived from the French word drogue, which refers to:
- (a) Gaseous substance (b) Dry substance
(c) Wet substance (d) Moist substance
3. Ventral cavity consists of _____ cavity.
- (a) Vertebral (b) Thoracic
(c) Abdominal (d) Both (b) and (c)
4. J. J. Thomson was awarded the Nobel Prize in Physics in 1906 for his work on the discovery of:
- (a) Electrons (b) Protons
(c) Neutrons (d) Atoms
5. _____ is a glucose polymer formed by bacteria and linked by a 1→6 instead of the typical 1→4 bond.
- (a) Dextran (b) Gelatin colloids
(c) Hirudin (d) Ticlopidine
6. The acetabulum is the socket in the hip bone that forms a _____ joint with the femur.
- (a) Ball and socket (b) Saddle
(c) Planar (d) Condylloid
7. Area bounded by $y = x^3$, $y = 8$ and $x = 0$ is
- (a) 2 sq. units (b) 14 sq. units
(c) 12 sq. units (d) 6 sq. units
8. _____ consists of many layers of mostly flat cells, although lower cells are rounded.
- (a) Stratified squamous epithelium
(b) Simple columnar
(c) Simple cuboidal
(d) Complex cuboidal
9. Vitamin K promotes the hepatic γ -carboxylation of glutamate residues on the precursors of factors:
- (a) II (b) VII
(c) IX and X (d) All of the above
10. If $A = \begin{bmatrix} 0 & 1 \\ 1 & 0 \end{bmatrix}$ then $A^2 =$
- (a) $\begin{bmatrix} 0 & 1 \\ 1 & 0 \end{bmatrix}$ (b) $\begin{bmatrix} 1 & 0 \\ 1 & 0 \end{bmatrix}$
(c) $\begin{bmatrix} 0 & 1 \\ 0 & 1 \end{bmatrix}$ (d) $\begin{bmatrix} 1 & 0 \\ 0 & 1 \end{bmatrix}$
11. One liter of blood contains _____ of iron.
- (a) 200 mg (b) 500 mg
(c) 800 mg (d) 1000 mg
12. The skull consists of 8 cranial bones and _____ facial bones.
- (a) 8 (b) 9 (c) 12 (d) 14
13. A train moves towards a stationary observer with speed 34 m/s. The train sounds a whistle and its frequency registered by the observer is f_1 . If the train's speed is reduced to 17 m/s, the frequency registered is f_2 . If the speed of sound is 340 m/s, then the ratio f_1/f_2 is:
- (a) $\frac{18}{17}$ (b) $\frac{21}{20}$ (c) $\frac{20}{19}$ (d) $\frac{19}{18}$
14. _____ is a watery solution of minerals, gases, organic molecules and cell organelles that is found between the cell membrane and the nucleus.
- (a) Lysosome (b) Mitochondria
(c) Cytoplasm (d) Ribosomes
15. The ventricles are _____ cavities within the brain.
- (a) two (b) three (c) four (d) five
16. A piece of metal is 3 inches long. What is its length in cm?
- (a) 7.62 cm (b) 6.72 cm
(c) 7.82 cm (d) 6.82 cm
17. The matrix of blood is plasma, which is about _____ of the total blood volume in the body.
- (a) 10% to 20% (b) 22% to 34%
(c) 35% to 45% (d) 52% to 62%
18. _____ denotes the inactivation or killing of pathogens (protozoa, bacteria, fungi, viruses) in the human environment.
- (a) Disinfection (b) Infection
(c) Contamination (d) None of the above
19. The cell division that reduces the chromosome number by half resulting in the production of haploid daughter cells is called
- (a) Mitosis (b) Cytokinesis
(c) Karyokinesis (d) Meiosis

90. Which of the following is not a type of network?
 (a) MAN (b) WAN (c) LAN (d) RAN
91. _____ is first to verify by animal experimentation assertions about pharmacological or toxicological actions.
 (a) Claudius Galen
 (b) Theophrastus von Hohenheim
 (c) Johann Jakob Wepfer
 (d) Rudolf Buchheim
92. _____ transmit impulses from the Central Nervous System (CNS) to the effector.
 (a) Sensory neurons (b) Receptors
 (c) Motor neurons (d) None of the above
93. _____ is a hierarchical topology.
 (a) Mesh (b) Hybrid (c) Bus (d) Ring
94. Toxicological investigations serve to evaluate the potential for
 (a) Toxicity associated with acute or chronic administration
 (b) Genetic damage
 (c) Production of tumors
 (d) All of the above
95. Thiazide diuretics include
 (a) Hydrochlorothiazide (b) Benzthiazide
 (c) Trichlormethiazide (d) All of the above
96. Drug dissolution is described by the Noyes–Whitney Equation, i.e.
 (a) $d/dt = KS (C_s - C)$ (b) $dC/d = KS (C_s - C)$
 (c) $dC/dt = KS (C_s - C)$ (d) $dC/dt = KS (C_s - C_2)$
97. Conversion of the domain name of each web server to its corresponding IP address is called
 (a) Domain name resolution (b) IP
 (c) Transmission (d) Encryption
98. The joint surfaces of bones are covered with articular cartilage, which provides a
 (a) Rough surface (b) Smooth surface
 (c) Flat surface (d) Irregular surface
99. _____ lowers HDL more than LDL.
 (a) Pyridylcarbinol (b) Probucol
 (c) Etofibrate (d) Gemfibrozil
100. Who first attempted to consider the theoretical background of pharmacology?
 (a) Claudius Galen
 (b) Theophrastus von Hohenheim
 (c) Johann Jakob Wepfer
 (d) Rudolf Buchheim

ANSWER KEY

1-d	2-b	3-d	4-a	5-a	6-a	7-c	8-a	9-d	10-d
11-b	12-d	13-d	14-c	15-c	16-a	17-d	18-a	19-d	20-b
21-b	22-a	23-c	24-d	25-d	26-d	27-a	28-c	29-c	30-b
31-d	32-a	33-c	34-b	35-b	36-a	37-d	38-b	39-b	40-c
41-c	42-c	43-d	44-b	45-a	46-a	47-d	48-d	49-b	50-b
51-c	52-b	53-d	54-a	55-a	56-b	57-d	58-d	59-d	60-a
61-c	62-c	63-c	64-a	65-c	66-a	67-c	68-c	69-c	70-d
71-a	72-b	73-a	74-b	75-d	76-c	77-b	78-d	79-a	80-d
81-b	82-d	83-c	84-b	85-b	86-d	87-c	88-c	89-b	90-d
91-c	92-c	93-b	94-d	95-d	96-c	97-a	98-b	99-b	100-a

- What is used as a vanishing agent in rubber for the construction of closures for the packaging of pharmaceuticals
(a) Sulphur (b) Zinc stearate
(c) Mineral oils (d) Tale
- In the process of mechanical size reduction, which of the following mill works on the principle of impact
(a) Bohr stone mill (b) Hammer mill
(c) Edge runner mill (d) End runner mill
- Which of the following statements describes the disadvantage of using water as a solvent in the extraction of the drug
(a) It is very cheap
(b) It is non-toxic
(c) It leads to the hydrolysis of many substances
(d) It can dissolve a wide range of chemical substances
- Name the process of removing the water of crystallization from the hydrated crystalline substances and making them anhydrous
(a) Lyophilization (b) Desiccation
(c) Ignition (d) Exsiccation
- For the drying processes, in which type of dryer the gas is allowed to flow upward through a bed
(a) Rotary dryer (b) Fluidized bed dryer
(c) Drum dryer (d) Spray dryer
- Which part of prescription contains prescriber's directions to the pharmacist regarding the dosage form to be prepared and number of doses to be dispensed
(a) Signatura (b) Date
(c) Subscription (d) Inscription
- Which of the following factors affect the dose and form of a drug in an individual
I. Route of administration II. Body weight
(a) Only I (b) Only II
(c) Both I and II (d) Neither I nor II
- _____ are viscous liquid preparations used for mouth and throat infections
(a) Throat paints (b) Drops
(c) Sprays (d) Enemas
- Which of the following drug is present in an anti-otic ointment
(a) Salicylic acid (b) Neomycin
(c) Zinc oxide (d) Silicones
- What are the injections given in the subcutaneous tissue under the skin of the upper arm called
(a) Intravenous injection
(b) Intramuscular injection
(c) Hypodermic injection
(d) Subcutaneous injection
- What is used as a disinfectant of water
(a) Methanol (b) Chlorine
(c) Phenol (d) Boric acid
- _____ is the science of poisons which are harmful, dangerous or fatal to humans
(a) Pharmacodynamics (b) Pharmacy
(c) Toxicology (d) Pharmacoeconomics
- _____ is defined as the amount or percentage of an active drug that is absorbed from a given dosage form
(a) Bioavailability of a drug
(b) Biotransformation of a drug
(c) Renal excretion of a drug
(d) Retarding drug metabolism
- For drug receptors, receptor _____ is a measure of the strength of binding between the drug and its
(a) Partial agonist (b) Affinity
(c) Antagonist (d) Potency
- Which of the following adrenergic drug is used a central stimulant
(a) Adrenaline (b) Dopamine
(c) Phenylephrine (d) Amphetamine
- In case of conjugated proteins, which of the following is an example of metalloproteins
(a) Casein of milk (b) Immunoglobulin G
(c) Ferritin (d) Succinate dehydrogenase
- Triacylglycerols are composed of fatty acids each in ester linkage with a single glycerol
(a) 3 (b) 4 (c) 5 (d) 6
- What is the main storage polysaccharide of animal cells?
(a) Chitin (b) Cellulose
(c) Dextrin (d) Glycogen
- A complete, catalytically active enzyme together with its bound coenzyme and/or metal ions is called a:
(a) Apoenzyme (b) Holoenzyme
(c) Cofactor (d) Hapten

60. Which substance is commonly used as an emetic to induce vomiting in cases of poisoning?
 (a) Activated charcoal (b) Ipecac syrup
 (c) Dimenhydrinate (d) Ondansetron
61. Which of the following is a type of chemical method of sterilization?
 (a) Dry heat sterilization (b) Moist heat sterilization
 (c) Gaseous sterilization (d) Radiation sterilization
62. Which of the following is/are the method/s for the preparation of eye ointment?
I. Trituration method
II. Fusion method
 (a) Only I (b) Only II
 (c) Both I and II (d) Neither I nor II
63. _____ is the most important constituent of a vanishing cream.
 (a) Stearic acid (b) Beeswax
 (c) Perfume (d) Talc
64. Which of the following is an example of an inorganic emulsifying agent used for the preparation of emulsions?
 (a) Acacia (b) Magnesium oxide
 (c) Methyl cellulose (d) Egg yolk
65. Which of the following is an example of a water-soluble base used in the preparation of suppositories?
 (a) Glycero-gelatin (b) Theobroma oil
 (c) Hydrogenated oils (d) Witepsol
66. Pyrogen test consists of injecting suitable amounts of the product into the ear vein of and recording their fever response
 (a) Frog (b) Mice
 (c) Guinea pig (d) Rabbit
67. Which of the following agent mimicked both adrenaline inotropic and relaxant effects on the frog rectum?
 (a) Cyclic AMP (b) Dibutyryl cyclic AMP
 (c) Theophylline (d) β -receptor antagonist
68. How strychnine affects the sodium conductance in a frog's Node of Ranvier?
 (a) It enhances sodium conductance
 (b) It blocks sodium conductance
 (c) It has no effect on sodium conductance
 (d) It slows down sodium conductance
69. Which of the following is/are the test/s for proteins?
I. Biuret test
II. Xanthoproteic reaction
 (a) Only I (b) Only II
 (c) Both I and II (d) Neither I nor II
70. Urine specimen is collected for the diagnosis of
 (a) Intestinal infections
 (b) Urinary tract infections
 (c) Observation of malarial parasite
 (d) Tuberculosis
71. When faeces specimen is collected in the laboratory for examination, then it should be cultured within
 (a) 2 hours (b) 4 hours
 (c) 6 hours (d) 8 hours
72. Which of the following is an example of fibres generated from carbohydrate materials for making surgical dressings?
 (a) Jute (b) Wool (c) Rayon (d) Nylon
73. What is used for the identification of fixed oils or fats in its chemical test?
 (a) Tincture alkana (b) Sodium hydroxide
 (c) Potassium iodide solution (d) Picric acid solution
74. According to microscopic evaluation, the average number of palisade ratio, beneath one epidermal cell using four continuous epidermal cells for the count known as
 (a) Palisade ratio (b) Stomatal number
 (c) Vein inlet number (d) Stomatal index
75. Which of the following sterilization method is used to sterilize inoculating loops?
 (a) Lyophilization (b) Filtration
 (c) Dessiccation (d) Direct Flaming
76. Which of the following roller bandage technique is used for joints like the elbow & knee?
 (a) Simple spiral (b) Spica
 (c) 8-shaped bandage (d) Reverse spiral
77. What is used to disinfect endoscopes, rubber anaesthetic tubes and bronchoscopes?
 (a) Glutaraldehyde (b) Boric acid
 (c) Chloroform (d) Ethylene oxide
78. Which enzyme in the digestive system is responsible for breaking down proteins into peptides?
 (a) Amylase (b) Lipase (c) Pepsin (d) Lactase
79. Which bone is the longest and strongest bone in the human body?
 (a) Femur (b) Tibia (c) Humerus (d) Radius
80. What is the primary function of alveoli in the respiratory system?
 (a) Transport oxygen in the blood
 (b) Filter particles from their air
 (c) Exchange gases between the air and blood
 (d) Produce surfactant to reduce surface tension

- Which of the following is not a feature of covalent bonding?
 - More than one pair of electrons may be shared by the concerned atoms
 - The formation of sodium chloride (NaCl) from one atom of sodium (Na) and atoms of chlorine (Cl) is an example
 - The process of sharing electrons does not produce ions
 - The combining atoms may belong to the same element or different elements
- Match the following and mark the correct answer.

1. Alcohols	A. Peracetic acid
2. Colorants	B. Ethanol
3. Peroxides	C. Chlorhexidine
4. Biguanides	D. Ethacridine lactate

 - 1-A, 2-D, 3-C, 4-B
 - 1-B, 2-A, 3-D, 4-C
 - 1-B, 2-D, 3-A, 4-C
 - 1-B, 2-C, 3-D, 4-A
- In which of the following is the antimicrobial agent bactericidal in nature?
 - Chloramphenicol
 - Erythromycin
 - Cephalosporins
 - Ethambutol
- The skeleton in the human body makes up almost how much of a healthy body's weight?
 - One fifth
 - One-third
 - Three-fourth
 - Two-fourth
- Which of the following is/are the key principles of a damage assessment survey?
 - listen
 - understand
 - look
 - action
 - Only 2, 3 and 4
 - All 1, 2, 3 and 4
 - Only 1, 2 and 4
 - Only 1, 2 and 3
- Which of the following correctly defines pharmacognosy?
 - Branch of pharmacy which plays key role in new drug discovery and development by using natural products
 - It describes the medical treatments that are used instead of traditional therapies
 - It employs treatment modalities such as purification, palliation, exercises and diets
 - It treats a patient with diet, Massages, surgery and pharmacotherapy
- Which of the following is the correct definition of Bio Ethics?
 - It refers to the study of moral beliefs of the people
 - It deals with origin of ethical principles that govern the specification of right and wrong behavior
 - The ethical principles or codes designed for a medical profession
 - These are the ethical principles or codes for maintaining normal livelihood
- Which of the following is true about the elected members of the pharmacy council of India
 - Five members elected by the university grant commission (U.G.C)
 - One member elected by state council, who shall be a registered pharmacist
 - Two members elected by medical council of India
 - Only 1 and 2
 - Only 1 and 3
 - Only 1
 - Only 2
- Which of the following is a function of management?
 - It makes use of the conceptual and human skills
 - It decides what is to be done and when it is to be done
 - The decisions are influenced by the values, opinions, and beliefs of the managers
 - It is concerned with formulation of broad objectives, plans and policies
- Which of the following is/are the characteristic of scheduled banks in India?
 - These banks are included in the second schedule of the RBI act 1934
 - These banks are not always required to submit all the returns about their financial affairs to the RBI
 - These banks can get financial help from rbi by borrowing against approved securities or discounting bills
 - All 1, 2 and 3
 - 2 and 3 only
 - 1 and 3 only
 - Only 1
- Which of the given options is true about the use of diuretics?
 - increase the rate of urine formation by the kidneys
 - decrease the amount of sodium and increase the amount of water in urine
 - Only 2
 - Both 1 and 2
 - Only 1
 - Neither 1 nor 2
- What is the optimum temperature of most enzymes?
 - 47 degree celsius
 - 37 degree celsius
 - 67 degree celsius
 - 57 degree celsius
- Which of the following is an acute form of exudative inflammation in which enzymes produced by white affected issues resulting in the formation of pus?
 - Serous inflammation
 - Fibrinous inflammation

61. Which of the recruitment tests measures the capacity and potentiality for learning the skills required for the job?
 (a) Intelligence tests (b) Interest tests
 (c) Aptitude tests (d) Job tests
62. As per the legal aspects of a drug store, what is the temperature range required for the storage of antibiotics, vitamin products, vaccines, sera, enzymatic preparations etc.?
 (a) 2 to 8 degrees celsius (b) 12 to 15 degrees celsius
 (c) 20 to 30 degrees celsius (d) 9 to 10 degrees celsius
63. Which of the following is not related to the sterilization by dry heat?
 (a) Sterilization cycle time is shorter
 (b) Effective method as dry heat by conduction reaches all surfaces of instruments
 (c) Eliminates wet pack problems in humid climates
 (d) Leaves no chemical residue
64. Which of the following is true regarding the critical aseptic Field?
 (a) A workspace that is managed as a key part and utilised when key parts are large Or numerous
 (b) A workspace that ensures the asepsis of key parts by utilising caps, sheaths and packaging
 (c) A workspace that promotes asepsis and is utilized when key parts can be easily protected
 (d) A workspace that is always utilized when using a general aseptic field
65. Which of the following is/are true about the Toxin?
 1. It is a toxic substance that has produced naturally
 2. Dioxin produced as a by-product of certain chlorinated chemicals is a toxin
 (a) Only 1 (b) Both 1 and 2
 (c) Neither 1 nor 2 (d) Only 2
66. Match the following environmental exposures with the related human health effects
- | | |
|----------------------|----------------------------|
| 1. UV exposure | A. Ischemic heart diseases |
| 2. Asbestos | B. Melanoma |
| 3. Noise | C. Insomnia |
| 4. Second-hand smoke | D. Mesothelioma |
- (a) 1-B, 2-D, 3-C, 4-A (b) 1-C, 2-A, 3-B, 4-D
 (c) 1-B, 2-C, 3-D, 4-A (d) 1-A, 2-D, 3-C, 4-B
67. Which of the given options is a demerit of using internal sources for recruitment in the organizations?
 (a) It involves the breeding of ideas
 (b) It adds knowledge and experience to employees leading to development
 (c) It ensures continuity of employment and organizational stability
 (d) Less of time and money is spent without the need for orientation
68. Which of the following components in tablets are intended to promote flow of granules or powder material by reducing the friction between the particles?
 (a) Diluents (b) Adhesives
 (c) Disintegrant (d) Glidants
69. _____ is the process which involves soaking of the powdered crude drug with the menstruum in a closed vessel for enough time for the menstruum to penetrate the cellular structure of the crude drug and dissolve the soluble constituents,
 (a) Extraction (b) Infusion
 (c) Percolation (d) Maceration
70. Which of the following statements about the nationalization of banks in India is incorrect?
 1. On Jan 1st 1949, RBI was nationalized
 2. In 1955, the imperial bank of India was nationalized and named SBI
 3. On 19th July 1978, 14 major Indian commercial banks were nationalized
 4. On 15th April 1982, another seven banks were nationalized
 (a) 3 and 4 only (b) 1 and 3 only
 (c) 2 and 4 only (d) 1 and 2 only
71. Which of the following is/are incorrect about the prosthetic group?
 1. It is a coenzyme or metal ion that a tightly or even covalently bonded to the enzyme protein
 2. The binding of the prosthetic group with the enzyme is temporary
 (a) Both 1 and 2 (b) Only 1
 (c) Only 2 (d) Neither 1 nor 2
72. Which of the following is/are the characteristic of fractional distillation?
 1. it is used to separate mixtures of liquids that have similar boiling points
 2. it is used to obtain essential oils and herbal distillates from several aromatic herbs
 (a) Both 1 and 2 (b) Only 1
 (c) Only 2 (d) Neither 1 nor 2
73. In which type of incompatibility, the chemical interaction can be minimized by addition or substitution of one the reacting ingredients of prescription with another of equal therapeutic value?
 (a) Immiscibility (b) Adjusted
 (c) Tolerated (d) Physiological

1. **What is PM-DEVINE scheme?**
 - (a) Development initiative for central India region
 - (b) Development initiative for southern region
 - (c) Development initiative for north eastern region
 - (d) Development initiative for northern states region
2. **Which of the following pairs is incorrect regarding the articles of the Indian Constitution and their related provisions?**
 - (a) Equality of opportunity in matters of public employment: Article 16
 - (b) Protection in respect of conviction for offences: Article 20
 - (c) Equality before law: Article 14
 - (d) Freedom of thought and expression: Article 20
3. **Ashwini Ponnappa is related to which of the following sports?**
 - (a) Cricket
 - (b) Table tennis
 - (c) Badminton
 - (d) Snooker
4. **Based on the information available until November 2023, which of the following was a universal bank?**
 - (a) HDFC Bank
 - (b) Punjab National Bank
 - (c) SBI Bank
 - (d) Bank of India
5. **Pohela Boishakh is associated with which of the following states?**
 - (a) Karnataka
 - (b) Uttar Pradesh
 - (c) West Bengal
 - (d) Andhra Pradesh
6. **Which of the following years is also known as the year of the beginning of the Second World War?**
 - (a) 1941
 - (b) 1942
 - (c) 1939
 - (d) 1940
7. **Which of the following rivers divides the Vindhya Mountains in the north and the Satpura Mountains in the south?**
 - (a) Mahanadi
 - (b) Godavari
 - (c) Narmada
 - (d) Chambal
8. **“There shall be a Council of Ministers with the Prime Minister at the head to aid and advise the President...” In which article of the Indian Constitution is this mentioned?**
 - (a) Article 32
 - (b) Article 21
 - (c) Article 72
 - (d) Article 74
9. **UNFCCC COP 28 was held in which of the following countries?**
 - (a) Egypt
 - (b) India
 - (c) Qatar
 - (d) UAE
10. **Sanskrit is associated with which language family?**
 - (a) Indo-Iranian
 - (b) Austro-Asiatic
 - (c) Indo-European
 - (d) Dravidian
11. **Who among the following introduced English education in India in 1835?**
 - (a) Lord Ripon
 - (b) Lord Macaulay
 - (c) Lord Dalhousie
 - (d) Lord Clive
12. **Which of the following is the first country in the world to make a soft landing on the south pole region of the Moon?**
 - (a) Russia
 - (b) China
 - (c) USA
 - (d) India
13. **Which two oceans are connected by the Suez Canal?**
 - (a) Black Sea and Arabian Sea
 - (b) Red Sea and Black Sea
 - (c) Caspian Sea and Red Sea
 - (d) Mediterranean Sea and Red Sea

Mathematics

14. **A shopkeeper sells his goods at cost price but uses a weight of 994.5 grams for a kilogram. What is his gain percent?**
 - (a) 0.55%
 - (b) 0.52%
 - (c) 0.57%
 - (d) 0.51%
15. **If the cost price of a chair is increased by 4 times (i.e., 81 rupees), what is the new cost price of the chair?**
 - (a) 120%
 - (b) 200%
 - (c) 250%
 - (d) 300%
16. **A man spends 60% of his income. If his income is increased by 40% and his expenditure by 40%, what is his savings percentage increase?**
 - (a) 300
 - (b) 200
 - (c) 400
 - (d) 350
17. **What smallest number should be subtracted from 98885 so that it is divisible by 7?**
 - (a) 6
 - (b) 3
 - (c) 4
 - (d) 5
18. **Find the height of a cylinder whose radius is 21 cm and the total surface area is 4488 cm² (take $\pi = 22/7$).**
 - (a) 21 cm
 - (b) 15 cm
 - (c) 14 cm
 - (d) 13 cm
19. **There are two batches A and B of a class. Batch A consists of 32 students and batch B consists of 40 students. Find the average weight of whole class if average weight of batch A is 34.6 kg and that of batch B is 35.5 kg.**
 - (a) 34.88 kg
 - (b) 36.22 kg
 - (c) 34.22 kg
 - (d) 35.44 kg

Most established cartoonists are of the view that no institute can teach you to make a cartoon. "You can pick up the craft, you may learn to sketch and draw in institutes, but no one can teach anybody how to make a good cartoon," says Stacy Shankar, a cartoonist with Navbharat Times. While basics, like drawing and sketching, can be learnt in an art college, and are important skills, these alone, do not make a good cartoonist. He adds that a question of one's creativity and sense of humor; two qualities one simply may not have. The established cartoonists give this art just because you sketch well, don't take for granted that you will become a cartoonist.

48. Select the most appropriate SYNONYM of the given word below: Witty
 (a) Angry (b) Humorous
 (c) Serious (d) Stupid
49. Select the most appropriate ANTONYM of the given word below: Struggle
 (a) Rivalry (b) Peace
 (c) Conflict (d) Competition
50. Identify the suitable title for the passage.
 (a) Let's explore the world of craft
 (b) So you want to be a cartoonist
 (c) I do not want to be a cartoonist
 (d) Creativity and sense of humour

57. निम्नलिखित में से कौन सा शब्द "शोषण" का विलोम शब्द है?
 (a) अशरण (b) अशिव
 (c) पोषण (d) कुपोषण
58. "सिर मारना" मुहावरे का अर्थ निम्नलिखित में से क्या है?
 (a) प्राण दे देना (b) मदद करना
 (c) प्रयत्न करना (d) सिर पर मारना
59. "सज्जन" में कौन सा उपसर्ग है?
 (a) सज (b) सज्ज (c) सत् (d) स
60. "सैरंधी" निम्नलिखित में से किस शब्द का पर्यायवाची शब्द है?
 (a) सहेली (b) वैदेही
 (c) विनीता (d) रमणी
61. हिमालय तक पहुँचना _____ है।
 (a) घनिष्ठ (b) दुर्गम
 (c) भीषण (d) निकट
62. "बिच्छू का मंत्र न जाने, साँप के बिल में हाथ डाले" लोकोक्ति का क्या अर्थ है?
 (a) जबरदस्ती किसी के पीछे पड़ना।
 (b) खराब समय मुश्किल से कटता है।
 (c) अफवाह करना।
 (d) मूर्खतापूर्ण कार्य करना।

Pharmaceutical Science

General Hindi

51. निम्नलिखित में से कौन शब्द "आजन्म" का सामासिक विरोध है?
 (a) जन्म लेने वाला (b) जन्म से लेकर
 (c) जन्म के बाद (d) जन्म से पहले
52. निम्नलिखित में से कौन सा शब्द वाक्य "जो कम बोलता है" के लिए सबसे सटीक अर्थ प्रदान करता है?
 (a) अल्पभाषी (b) द्विभाषी
 (c) अव्यय (d) मृदुभाषी
53. "मेघ - मेघ" शब्द युग्म का सही अर्थ क्या है?
 (a) जलद - यज्ञ (b) जलधि - जलद
 (c) यज्ञ- जलद (d) जलद - जलधी
54. "पथरीला" शब्द में कौन सा प्रत्यय है?
 (a) ला (b) ईला (c) आ (d) इला
55. "पंचवटी" में कौन सा समास है?
 (a) तत्पुरुष समास (b) द्वंद समास
 (c) द्विगु समास (d) कर्मधारय समास
56. मनोयोग का संधि विच्छेद निम्नलिखित में से क्या है?
 (a) मन्न+ योग (b) मनो + योग
 (c) मनः + योग (d) मनो + ग

63. Which type of toxicology is concerned with gathering toxicological information from animal experimentation?
 (a) Occupational Toxicology
 (b) Descriptive Toxicology
 (c) Clinical Toxicology
 (d) Regulatory Toxicology
64. A drug derived from the plant *Digitalis purpurea* is classified under which taxonomical group?
 (a) Terpenoids (b) Glycosides
 (c) Alkaloids (d) Flavonoids
65. The Philadelphia chromosome is a hallmark genetic feature of:
 (a) Acute lymphoblastic leukemia
 (b) Hodgkin's lymphoma
 (c) Chronic myeloid leukemia
 (d) Multiple myeloma
66. In the context of health promotion, primary prevention typically includes:
 (a) Measures to prevent the occurrence of diseases
 (b) Diagnostic testing for early disease detection
 (c) Rehabilitation services
 (d) Treatment of existing diseases

Pharmaceutics

- निम्नलिखित में से किसके सिवाय सभी में तरल और ठोस का सामर्थ्य व्यक्त किया जाता है
(a) %w/w (b) % v/v
(c) % w/v (d) % v/v
- _____ is the smallest capsule size
(a) 1 (b) 4 (c) 0 (d) 5
- Nonuniformity of tablet coating is called:
(a) Sticking (b) Lamination
(c) Mottling (d) Capping
- _____ is equal to one centigram.
(a) 1 mg (b) 0.1 mg (c) 10 mg (d) 100
- A substance which can kill pathogenic bacteria is called
(a) Virucide (b) Bactericide
(c) Germicide (d) Fungicide
- किसी रोलर कंपैक्टर (roller compactor) का संहननबल किसके द्वारा नियंत्रित नहीं किया जाता है
(a) प्रभरण पेंचों की घूर्णी गति
(b) संहनन रोल पर लगाए गए द्रवचालित दाब
(c) संहनन रोल की घूर्णी गति
(d) अच्छे प्रवाह और संपीडन
- निम्नलिखित में से किस भरक (filler) का उपयोग अधिकांश टेबलेट बनाने के लिए किया जाता है
(a) Diluents (b) Disintegrants
(c) Binders (d) Adhesives
- निम्नलिखित में से किसके सिवाय सभी में पैन कोटिंग (Pan coating) तकनीक प्रक्रिया का उपयोग किया जाता है
(a) Enteric coating (b) Film coating
(c) Compressed coating (d) Sugar coating
- शुष्क ताप विसंक्रमण विधि (dry heat sterilisation method) में बैक्टीरिया कारण से मारे जाते हैं।
(a) आवश्यक कोशिकीय घटकों के ऑक्सीकरण
(b) आवश्यक कोशिकीय घटकों के अपचयन
(c) आवश्यक कोशिकीय घटकों के अवक्षेपण
(d) आवश्यक कोशिकीय घटकों के हैलोजनीकरण
- कैप्सूल खोल (capsule shell) की इष्टतम आर्द्रताश_ हैं।
(a) 25% (b) 14% (c) 17% (d) 8%
- Many physicians write the prescription in accordance _____ System.
(a) Metric (b) Imperial
(c) Capacity (d) Percentage
- Invitro performance of coated tablets is evaluated by:
(a) Stress relaxation test
(b) Disintegration test
(c) Microindenter probe analysis
(d) Adhesion test
- A medical prescription is represented by the symbol
(a) Rx (b) = (c) DRx (d) NRx
- Injections are generally sterilised by the method
(a) Heating (b) Moist heat sterilisation
(c) Coagulation (d) Dry heat sterilization
- A normal blood sodium level is
(a) 110-120 mEq L (b) 80-90 mE
(c) 120-125 mEq/L (d) 135-145 mEq/L

Pharmaceutics Chemistry

- _____ is an example of high sedative.
(a) Cyproheptadine (b) Pheniramine
(c) Diphenhydramine (d) Chlorpheniramine
- What is the colour of phenolphthalein at pH 11
(a) Pink (b) Blue (c) Yellow (d) Colorless
- General anaesthetics are _____ of the central nervous system.
(a) Stimulators (b) Depressants
(c) Stabilisers (d) Activators
- _____ is a primary standard for standardisation of perchloric acid
(a) Sodium oxalate (b) Potassium dichromate
(c) Sodium chloride (d) Potassium hydrogen phthalate
- Which of the following is NOT a buffer solution
(a) Sodium acetate + acetic acid
(b) Sodium formate + formic acid
(c) Sodium hydroxide + hydrochloric acid
(d) Ammonium chloride + ammonium hydroxide
- Weakly basic drugs are assayed by
(a) Non aqueous titration (b) Complexometric titration
(c) Redox titration (d) Precipitation titration
- Which of the following is the chief constituent of vinegar
(a) Acetaldehyde (b) Acetic acid
(c) Methane (d) Ethane
- Alum is used in the preparation of
(a) Sublimed sulphur
(b) Precipitated sulphur
(c) Yellow mercuric oxide
(d) Precipitated tetanus toxoids

73. Which of the following equipment is recommended for in-house quality control pharmacognosy section?
 (a) Polarimeter (b) Viscometer
 (c) Dissecting microscope (d) Refractometer
74. A middleman is the person who provides a link between the.
 (a) Manufacturer and owner
 (b) Workers and owner
 (c) Customer and owner
 (d) Manufacturer and customer
75. Which of the following is the simplest carbohydrate
 (a) Dihydroxyacetone (b) Acetoacetate
 (c) Glucose (d) Glyceraldehyde
76. _____ का उपयोग अंतर्ग्रहण विष के अवशोषण को रोकने के लिए किया जाता है।
 (a) Penicillamine
 (b) Dimercaprol
 (c) Calcium disodium versenate
 (d) Charcoal
77. मॉर्फिन की अतिमात्रा के कारण क्या होता है
 (a) Respiratory failure (b) Vestibular damage
 (c) Renal failure (d) Myocardial damage
78. निम्नलिखित में से कौन सा चिकित्सा पेशे के संबंध में फार्मासिस्ट से संबंधित नहीं है
 (a) Clandestine arrangements
 (b) Limitation of professional activity
 (c) Law-abiding citizens
 (d) Liaison with public
79. How many pharmacists are required for a 100-bed hospital
 (a) 10 (b) 06 (c) 05 (d) 02
80. All of the following are the disadvantages of diabetes, EXCEPT:
 (a) Retinopathy (b) Hypothyroid
 (c) Kidney damage (d) Neuropathy
81. समन, किसी कार्य का (3/5) भाग 9 दिन में पूर्ण करती है। शेष कार्य को वह कविता की मदद से 4 दिन में पूर्ण करती है। अकेले कविता उसी कार्य को कितने दिन में कर सकती है
 (a) 20 दिन (b) 50 दिन
 (c) 30 दिन (d) 40 दिन
82. एक बेलन का चक्र पृष्ठीय क्षेत्रफल 2640 cm^2 है और इसके आधार की परिधि (circumference) 66 cm है। बेलन का आयतन (cm^3 में ज्ञात कीजिए) ($\pi = 22/7$ का उपयोग कीजिए)
 (a) 12860 (b) 14680
 (c) 13680 (d) 13860
83. _____ प्रोफेशनल नेटवर्किंग के लिए एक सर्वाधिक लोकप्रिय सोशल मीडिया वेबसाइट हैं, जो उपयोगकर्ता को अपना बायोडाटा जोड़ने, अपने उद्योग में दूसरों के साथ जुड़ने, यहां तक कि जॉब लिस्टिंग (job listings) पोस्ट करने और जवाब देने की सुविधा देता है।
 (a) Pinterest (b) LinkedIn
 (c) Flickr (d) YouTube
84. भारतीय संविधान में संसदीय प्रणाली की विशेषता निम्नलिखित में से किस देश से ली गई है
 (a) ऑस्ट्रेलिया (b) जापान
 (c) कनाडा (d) ब्रिटेन
85. Find the greatest three-digit number that leaves remainder 5 when divided by 6, 9 and 12.
 (a) 999 (b) 974 (c) 972 (d) 977
86. 1909 के भारतीय परिषद अधिनियम को किस नाम से भी जाना जाता है
 (a) All India Depressed Class Federation
 (b) Social Service League
 (c) Bharat Stree Mandal
 (d) Marley- Minto Reforms
87. निम्नलिखित में से कौन-सा प्रिंटर एक स्याही वाले रिबन के सामने एक प्रिंट हैमर या व्हील स्ट्राइक करके कैरेक्टर याइमेजेस को प्रिंट करता है
 (a) मैट्रिक्स प्रिंटर (b) इंकजेट प्रिंटर
 (c) ड्रमप्रिंटर (d) लेजरप्रिंटर
88. निम्नलिखित में से कौन-सा एक महत्वपूर्ण चरण है जहां पोषक तत्व पाचन अंगों से लिए जाते हैं और शरीर के ऊतकों को वितरित किए जाते हैं
 (a) अवशोषण (b) अंतर्ग्रहण
 (c) उत्सर्जन (d) पाचन
89. सात एथलीट E, J, K, L, M, N और P एक दौड़ से पहले एक पंक्ति में उत्तर की ओर अभिमुख हो कर खड़े हैं। N के ठीक दाएँ पड़ोस में खड़ा है। J, L के दाएँ से चौथे स्थान पर खड़ा है। K के दोनों ओर निकट पड़ोस में E और P बैठे हैं। वह व्यक्ति जो P के बाएँ से तीसरे स्थान पर खड़ा है, वह किसी एक छोर पर खड़ा है। L और K के बीच खड़ा एक मात्र व्यक्ति कौन है
 (a) N (b) E (c) P (d) J
90. किसी निश्चित कूट भाषा में, SHIRT को TRIHS और PRINT को TNIRP लिखा जाता है। तो उसी भाषा में CLEAN को कैसे लिखा जाएगा
 (a) NAELC (b) ACENL
 (c) NALCE (d) NACLEQ

General Aptitude Reasoning
 Awareness Computer Knowledge



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1. Which of the following banks has introduced India's first digital rupee retail pilot project?
(a) State Bank of India (b) Reserve Bank of India
(c) HDFC Bank (d) ICICI Bank
(e) Punjab National Bank
2. Who is the current Chairperson of the Securities and Exchange Board of India (SEBI) as of 2025?
(a) Ajay Tyagi (b) Shaktikanta Das
(c) Uday Kotak (d) Madhabi Puri Buch
(e) Nirmala Sitharaman
3. The term "Green GDP" is associated with which of the following concepts?
(a) GDP adjusted for inflation
(b) GDP including environmental costs
(c) GDP excluding taxation impact
(d) GDP based on agricultural output
(e) GDP considering only non-renewable resources
4. Which organization publishes the World Economic Outlook Report?
(a) International Monetary Fund (IMF)
(b) World Bank
(c) United Nations Development Programme (UNDP)
(d) Asian Development Bank (ADB)
(e) World Economic Forum (WEF)
5. The G20 Summit 2024 was held in which of the following countries?
(a) India (b) Italy
(c) Brazil (d) Saudi Arabia
(e) Germany
6. What is the full form of IFSC in the banking sector?
(a) Indian Financial System Code
(b) International Financial Services Center
(c) Integrated Financial Security Code
(d) Interbank Fund Settlement Code
(e) Indian Fiscal and Securities Corporation
7. Which Indian bank was the first to introduce a fully digital banking branch?
(a) Axis Bank (b) ICICI Bank
(c) HDFC Bank (d) State Bank of India
(e) Kotak Mahindra Bank
8. Which financial institution regulates the NBFCs (Non-Banking Financial Companies) in India?
(a) SEBI (b) RBI
(c) Ministry of Finance (d) NABARD
(e) NITI Aayog
9. The Statutory Liquidity Ratio (SLR) is maintained by banks in the form of which of the following?
(a) Cash only
(b) Gold only
(c) Government-approved securities only
(d) Cash, Gold, and Approved Securities
(e) Foreign Currency Reserves
10. The headquarters of the World Bank is located in which city?
(a) Geneva (b) Paris
(c) Washington D.C. (d) New York
(e) London
11. What is the minimum paid-up capital requirement for a Small Finance Bank (SFB) in India as per RBI guidelines?
(a) ₹ 100 crore (b) ₹ 200 crore
(c) ₹ 300 crore (d) ₹ 500 crore
(e) ₹ 250 crore
12. Who is responsible for printing currency notes in India except ₹1 notes?
(a) Reserve Bank of India (RBI)
(b) Ministry of Finance
(c) Security Printing and Minting Corporation of India
(d) State Bank of India
(e) National Payments Corporation of India
13. Which committee is associated with banking sector reforms in India?
(a) Narsimham Committee (b) Rangarajan Committee
(c) Kelkar Committee (d) Malhotra Committee
(e) Tarapore Committee
14. The Base Rate System in the banking sector was replaced by which framework?
(a) MCLR (Marginal Cost of Funds based Lending Rate)
(b) SLR (Statutory Liquidity Ratio)
(c) CRR (Cash Reserve Ratio)
(d) Reverse Repo Rate
(e) Benchmark Prime Lending Rate (BPLR)
15. The NIFTY 50 Index represents which of the following?
(a) 50 largest companies listed on the Bombay Stock Exchange (BSE)
(b) 50 companies from the pharmaceutical sector
(c) 50 actively traded stocks on the National Stock Exchange (NSE)
(d) 50 foreign companies investing in India
(e) 50 best-performing banks in India

59. A shopkeeper offers a 20% discount on an article and still makes a 25% profit. If the marked price is ₹1600, what is the cost price?
 (a) ₹ 900 (b) ₹ 1000 (c) ₹ 1050
 (d) ₹ 1100 (e) ₹ 1200
60. The speed of a boat in still water is 15 km/h, and the speed of the stream is 3 km/h. What is the time taken by the boat to travel 36 km downstream?
 (a) 1.5 hours (b) 2 hours (c) 2.5 hours
 (d) 3 hours (e) 4 hours

(Refer to the table below for Q61 – Q63)

Year	Product A (Sales in ₹ crores)	Product B (Sales in ₹ crores)
2020	250	200
2021	280	230
2022	320	250
2023	350	270
2024	400	300

61. What is the percentage increase in sales of Product A from 2020 to 2024?
 (a) 40% (b) 50% (c) 60%
 (d) 70% (e) 80%
62. What is the average sales of Product B over the five years?
 (a) ₹ 230 crores (b) ₹ 240 crores
 (c) ₹ 250 crores (d) ₹ 260 crores
 (e) ₹ 270 crores
63. In which year was the difference between Product A and Product B sales the highest?
 (a) 2020 (b) 2021 (c) 2022
 (d) 2023 (e) 2024
64. If $16^{(x-1)}=64$, find the value of x.
 (a) 2 (b) 3 (c) 4 (d) 5 (e) 6
65. A man's present age is three times his son's age. After 5 years, his age will be twice his son's age. What is the present age of the son?
 (a) 5 years (b) 8 years (c) 10 years
 (d) 12 years (e) 15 years
66. The sum of the first 15 natural numbers is:
 (a) 110 (b) 120 (c) 130
 (d) 140 (e) 150
67. The cost price of an article is ₹ 750, and the selling price is ₹ 900. What is the profit percentage?
 (a) 10% (b) 15% (c) 20% (d) 25% (e) 30%
68. A sum of ₹ 5000 is compounded annually at a rate of 10% per annum. What will be the amount after 2 years?
 (a) ₹ 6000 (b) ₹ 6050 (c) ₹ 6055
 (d) ₹ 6100 (e) ₹ 6150

69. A car covers 360 km in 6 hours. What is its speed in meters per second?
 (a) 15 m/s (b) 16 m/s (c) 17 m/s
 (d) 18 m/s (e) 20 m/s
70. A shopkeeper gives 15% discount on a product and still makes 12% profit. If the marked price of the product is ₹ 2000, find its cost price.
 (a) ₹ 1500 (b) ₹ 1550 (c) ₹ 1600
 (d) ₹ 1650 (e) ₹ 1700
71. A train crosses a 300 m long bridge in 30 seconds at a speed of 72 km/h. Find the length of the train.
 (a) 200 m (b) 250 m (c) 300 m
 (d) 350 m (e) 400 m
72. If A is 20% more than B, and B is 30% less than C, then what is A in terms of C?
 (a) 80% of C (b) 85% of C (c) 90% of C
 (d) 95% of C (e) 100% of C

(Refer to the pie chart below for Q73 – Q75)

The pie chart shows the percentage distribution of sales of different laptop brands in a particular year.

Brand	Percentage Share (%)
Dell	25%
HP	20%
Lenovo	18%
Apple	15%
Asus	12%
Others	10%

73. If the total number of laptops sold is 5000, how many Dell laptops were sold?
 (a) 1000 (b) 1100 (c) 1200
 (d) 1250 (e) 1300
74. What is the ratio of HP to Asus laptop sales?
 (a) 3:2 (b) 5:3 (c) 4:3
 (d) 6:5 (e) 5:4
75. If the total sales revenue from Apple laptops is ₹ 50 lakh, what is the total revenue from all brands assuming the price per unit is the same?
 (a) ₹ 200 lakh (b) ₹ 250 lakh
 (c) ₹ 300 lakh (d) ₹ 330 lakh
 (e) ₹ 350 lakh

Reasoning Ability

76. A person walks 6 km north, then turns right and walks 4 km. He again turns right and walks 6 km. Finally, he turns left and walks 3 km. In which direction is he now from the starting point?
 (a) East (b) West (c) North
 (d) South (e) South-East



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- 144. A patient with severe sepsis is prescribed an aminoglycoside antibiotic. The pharmacist suggests therapeutic drug monitoring (TDM) to avoid toxicity. What is the primary adverse effect of concern?**
 (a) Hepatotoxicity (b) Nephrotoxicity
 (c) Myelosuppression (d) Peripheral neuropathy
 (e) Ototoxicity
- 145. A 50-year-old male presents with yellowish skin and eyes. Laboratory tests reveal elevated unconjugated bilirubin. Which enzyme deficiency is most likely responsible?**
 (a) Glucose-6-phosphate dehydrogenase
 (b) UDP-glucuronosyltransferase
 (c) Pyruvate kinase
 (d) Xanthine oxidase
 (e) Alanine aminotransferase
- 146. A laboratory report shows an elevated serum creatinine level in a patient. This suggests impairment of which organ?**
 (a) Liver (b) Kidney (c) Heart
 (d) Lungs (e) Pancreas
- 147. Under the Drugs & Cosmetics Act, which schedule contains drugs that should be stored under refrigeration?**
 (a) Schedule C (b) Schedule H
 (c) Schedule X (d) Schedule M
 (e) Schedule Y
- 148. The maximum allowable percentage of ethanol in liquid oral preparations (like syrups) under the Drugs & Cosmetics Act is:**
 (a) 2% (b) 5% (c) 10%
 (d) 15% (e) 20%
- 149. A pharmacist conducting a vaccination awareness program emphasizes the importance of the pentavalent vaccine. Which of the following diseases is NOT covered under this vaccine?**
 (a) Diphtheria (b) Hepatitis B
 (c) Polio (d) Pertussis
 (e) Haemophilus influenzae type B
- 150. A public health initiative aims to reduce maternal mortality by providing iron and folic acid supplementation to pregnant women. Which deficiency is this primarily intended to prevent?**
 (a) Vitamin B12 deficiency
 (b) Iron-deficiency anemia
 (c) Calcium deficiency
 (d) Vitamin C deficiency
 (e) Iodine deficiency

ANSWER KEY

1-b	2-d	3-b	4-a	5-c	6-a	7-b	8-b	9-d	10-c
11-b	12-a	13-a	14-a	15-c	16-a	17-d	18-b	19-a	20-b
21-a	22-c	23-d	24-b	25-a	26-b	27-a	28-b	29-b	30-c
31-b	32-a	33-c	34-b	35-b	36-a	37-a	38-b	39-c	40-a
41-c	42-b	43-b	44-a	45-a	46-d	47-b	48-c	49-b	50-c
51-c	52-a	53-c	54-b	55-c	56-b	57-c	58-c	59-b	60-b
61-c	62-c	63-e	64-b	65-c	66-b	67-e	68-d	69-d	70-c
71-b	72-c	73-a	74-b	75-b	76-e	77-c	78-b	79-b	80-b
81-c	82-b	83-e	84-c	85-b	86-c	87-e	88-a	89-d	90-e
91-c	92-c	93-d	94-c	95-b	96-c	97-a	98-c	99-d	100-c
101-b	102-c	103-c	104-a	105-b	106-b	107-b	108-a	109-b	110-b
111-c	112-a	113-a	114-c	115-b	116-d	117-b	118-a	119-c	120-e
121-c	122-b	123-b	124-b	125-c	126-b	127-c	128-e	129-b	130-d
131-a	132-b	133-c	134-b	135-d	136-b	137-c	138-c	139-a	140-b
141-c	142-e	143-c	144-e	145-b	146-b	147-a	148-c	149-c	150-b



- Which of the following statements is Not true for dry heat method of sterilizations
 - Usually, sterilization is done by heating at a temperature of 160 °C for two hours
 - Destruction of microorganism is affected by oxidation of essential cell constituents
 - This method is not suitable for powders and oily
 - This method is not suitable for surgical dressings
- Enteric coating is given to tablets in order to
 - Protect the medicament from highly acid pH environment in stomach
 - Ensure highest concentration of drug in the stomach
 - Separate chemical or physical incompatible Ingredients
 - Prolong the duration of action of medicaments
- If a capsule is numbered as 000 which means
 - It is the smallest sized capsule with a capacity of 100 mg
 - Is for the inclusion of ophthalmic ointments only
 - The shape of the capsule is oval
 - It is the largest sized and for veterinary purpose
- Which one of the following is a correct statement regarding soft gelatin capsule
 - Soft gelatin shells may contain methyl and propyl parabens as preservative
 - Not suitable for use as suppositories
 - Not suitable for ophthalmic ointments
 - The manufacturing and filling of medicaments are done in separate operations
- For the evaluation of tablet, a test used to measure the amount of time required for the drug substance in tablet to go into solution under specified condition is known as
 - Dissolution test
 - Disintegration test
 - Friability test
 - Weight variation test
- Unequal distribution of colour on a tablet with light and dark areas standing out in a uniform surface is known as
 - Lamination
 - Capping
 - Mottling
 - Picking
- Mechanism of killing microorganisms by gaseous sterilizations is
 - Coagulation of proteins
 - Alkylation of proteins
 - Oxidation of essential cell components
 - Nuclear destruction
- Role of Glycerin or sorbitol in the manufacturing of capsule shell as
 - Preservative
 - Flavoring agent
 - Opacifying agent
 - Plasticizer
- Sterilization by heating with a bactericide
 - Can be used safely for intrathecal injections
 - Not suitable for intravenous injection when single dose exceeds 15 ml
 - Is performed before the preparation is transferred into the final container
 - Not suitable for eye drops
- During the formulation of tablet the purpose of adding magnesium stearate as
 - Lubricant
 - Binding agent
 - Adsorbing agent
 - Disintegrating agent
- Lugol's solution is
 - Weak solution Iodine solution
 - Aqueous iodine
 - Povidone-iodine
 - Iodine tincture
- Which one of the following is a common ingredient in ear drops as dewaxing agent
 - Potassium permanganate
 - Boric acid
 - Hydrogen peroxide
 - Zinc peroxide
- Penicillamine is an antidote used in the poisoning of
 - Iron
 - Cyanide
 - Mercury
 - Copper and lead
- An oxidative antimicrobial agent is
 - Yellow mercuric oxide
 - Povidone-iodine
 - Sodium hypochlorite
 - Sulphur Dioxide
- Which of the following is an incorrect statement regarding ammonium chloride
 - It is an irritating expectorant and used as an ingredient in cough mixtures
 - Given to aid easy elimination in lead poisoning
 - In the liver it is metabolized into urea
 - It is used as a systemic alkalize
- Which one of the following is used for the treatment of schistosomiasis (Kala-azar) and administered intravenously
 - Antimony potassium tartrate
 - Potassium iodide
 - Ammonium carbonate
 - Strontium chloride

89. All of the following statements about parenteral products are true EXCEPT
 (i) The drug product is easier to remove from vials than ampule.
 (ii) Ampules are intended for multiple use
 (iii) Large volume parenteral are infusion solutions
 (a) Only (i) and (ii) (b) Only (ii) and (iii)
 (c) Only (i) and (iii) (d) All of the above
90. In A, B, C analysis of inventory control, "A class" items are about _____ of the total items in number and nearly _____ of the annual consumption value of the items
 (a) 15% and 80% (b) 30% and 25%
 (c) 50% and 10% (d) 70% and 3%
91. Teratogenic drugs, EXCEPT
 (a) Stilbestrol (b) Warfarin
 (c) Phenytoin (d) Dicyclomine
92. The international drug monitoring center is at
 (a) Uppsala, Sweden (b) Geneva, Switzerland
 (c) Washington DC, USA (d) Mexico City, Mexico
93. Which of the following organisms can cause peptic ulcer disease?
 (a) Staphylococcus (b) Escherichia coli
 (c) Helicobacter pylori (d) Giardia lamblia
94. The term coronary artery disease is used to designate all of the following conditions, EXCEPT
 (a) Angina Pectoris
 (b) Sudden cardiac death
 (c) Congestive Heart Failure (CHF)
 (d) Myocardial Infarction
95. Normal safety range of potassium in adult blood is
 (a) 1.5-2 mEq/L (b) 3.5-5 mEq/L.
 (c) 6-8 mEq/L (d) 0.5-1.3 mEq/L
96. Burton's line is a clinical sign found in patients with chronic poisoning of
 (a) Mercury (b) Lead
 (c) Bismuth (d) Arsenic
97. Metabolic acidosis can be compacted by
 (a) Toluene (b) Amphotericin
 (c) Spironolactone (d) Trisaminomethane
98. Warfarin-Metronidazole drug interaction is due to
 (a) Alteration in motility
 (b) Alteration in metabolism
 (c) Displacement from protein binding site
 (d) Alteration in excretion
99. Bioavailability may be determined by using
 (i) Plasma drug concentration verses time profile
 (ii) Urinary drug excretion studies
 (iii) Measurement of an acute pharmacological effect
 (iv) Clinical studies or in-vitro studies
 (a) Only (i) and (ii) (b) Only (i) and (iii)
 (c) (i), (ii), (iii) and (iv) (d) Only (i), (iii) and (iv)
100. Following statements concerning drug addiction are correct EXCEPT
 (i) An overpowering desire or compulsion to continue taking the drug and to obtain it by any means
 (ii) A tendency to decrease the dose
 (iii) Psychic/physical dependence on the effect of the drugs
 (a) Only (i) and (ii) (b) Only (ii) and (iii)
 (c) Only (i) and (iii) (d) All of the above

ANSWER KEY

1-c	2-a	3-d	4-a	5-a	6-c	7-b	8-d	9-b	10-a
11-b	12-c	13-d	14-c	15-d	16-a	17-a	18-b	19-d	20-c
21-a	22-c	23-a	24-a	25-b	26-d	27-b	28-d	29-c	30-d
31-d	32-b	33-c	34-d	35-d	36-a	37-a	38-c	39-a	40-a
41-b	42-a	43-c	44-d	45-b	46-d	47-d	48-c	49-b	50-b
51-c	52-d	53-a	54-b	55-d	56-b	57-d	58-c	59-a	60-d
61-b	62-c	63-c	64-d	65-d	66-b	67-c	68-b	69-a	70-b
71-a	72-c	73-d	74-b	75-d	76-b	77-b	78-d	79-a	80-b
81-c	82-b	83-b	84-a	85-b	86-a	87-c	88-d	89-c	90-a
91-d	92-a	93-c	94-c	95-b	96-b	97-d	98-b	99-c	100-c



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23. **N-Acetylcysteine (NAC) reduces the severity of hepatic necrosis in toxicity due to:**
 (a) Acetaminophen (b) Isoniazid
 (c) Halothane (d) Methyldopa
24. **Cardiotoxicity is caused by which of the following:**
 (a) Rofecoxib (b) Nicorandil
 (c) Metoprolol (d) Losartan
25. **All of the following diuretics cause an increase in Potassium excretion except:**
 (a) Ethacrynic acid (b) Acetazolamide
 (c) Frusemide (d) Triamterene
26. **Which of the following is not a pulmonary use of Spironolactone:**
 (a) Pulmonary Edema
 (b) Hypertension
 (c) Congestive Heart Failure
 (d) To counteract hypokalemia due to thiazide diuretics
27. **Antihypertensive which can be used in a patient with gout and diabetes mellitus is:**
 (a) Thiazide (b) Propranolol
 (c) Enalapril (d) Diazoxide
28. **Digoxin can accumulate in toxic levels in patients with:**
 (a) Renal insufficiency (b) Chronic hepatitis
 (c) Advanced Cirrhosis (d) Chronic Pancreatitis
29. **Dofetilide is which class of anti-arrhythmic drug:**
 (a) Class I (b) Class II
 (c) Class IV (d) Class III
30. **The Vitamin which can be used for the treatment of percholesterolemia:**
 (a) Thiamine (b) Niacin
 (c) Pyridoxine (d) Vit. B12
31. **Cyanide Poisoning can be treated by:**
 (a) Pyridoxine (b) Vitamin B12
 (c) Hyperbaric Oxygen (d) 17Flumazenil
32. **Platelet aggregation is inhibited by all except:**
 (a) Aspirin (b) Clopidogrel
 (c) Thromboxane A2 (d) Eptifibatid
33. **Which of the following drug can cause Thyroid Dysfunction:**
 (a) Amiodarone (b) Ampicillin
 (c) Ibutilide (d) Acyclovir
34. **Which of the following is contraindicated in pregnancy:**
 (a) Labetalol (b) Hydralazine
 (c) Nifedipine (d) ACE inhibitors
35. **LMW heparin inhibits:**
 (a) Factor Xa (b) Factor Xa & IIa
 (c) Factor IIa (d) Factors II, VII, IX & X
36. **Which of the following is a Rho-Kinase Inhibitor:**
 (a) Fasudil (b) Nicorandil
 (c) Amiloride (d) Ranolazine
37. **Mobius syndrome is due to antenatal intake of:**
 (a) Mifepristone (b) Misoprostol
 (c) Diniprostone (d) Methotrexate
38. **Long term use of which drug results in Vitamin B12 deficiency:**
 (a) Metformin (b) Vildagliptin
 (c) Exetanide (d) Repaglinide
39. **Which Insulin is never mixed with other Insulin:**
 (a) Lente (b) Aspart
 (c) Lispro (d) Glargine
40. **Lugol's Iodine contains:**
 (a) 5% Iodine & 10% KI
 (b) 10% Iodine & 5% KI
 (c) 10% Iodine & 15% KI
 (d) 10% Iodine & 20% KI
41. **Which of the following is an oxytocin antagonist:**
 (a) Ritodrine (b) Atosiban
 (c) Isoxsuprine (d) Methergine
42. **cAMP acts as 2nd messenger for the following except:**
 (a) TSH (b) Insulin (c) LH (d) FSH
43. **Which drug is used for pain control in cancer patient?**
 (a) Pethidine (b) Fentanyl
 (c) Methadone (d) Remifentanyl
44. **The effect of morphine which has less tolerance is:**
 (a) Analgesia (b) Respiratory depression
 (c) Constipation (d) Bradycardia
45. **The drug of choice for status epilepticus is:**
 (a) Propofol (b) Lorazepam
 (c) Ethosuximide (d) Carbamazepine
46. **The drug of choice for 'obsessive compulsive disorder' is:**
 (a) Sertraline (b) Amoxapine
 (c) Hydroxyzine (d) Alprazolam
47. **Schizophrenia is treated by:**
 (a) Antidepressants (b) Antipsychotics
 (c) Antiepileptics (d) Moodstabilizers
48. **Fomepizole is an antidote of:**
 (a) Mushroom poisoning
 (b) Benzodiazepine
 (c) Ethylene Glycol poisoning
 (d) Organophosphorus poisoning
49. **Drug of choice for prophylaxis for manic attacks is:**
 (a) Lithium (b) Haloperidol
 (c) Clozapine (d) Carbamazepine

1. किसी निश्चित कूट भाषा में, "LAND" को "LBPG" लिखा जाता है और "JEAN" को "JFCQ" लिखा जाता है। तो उसी भाषा में "HOME" को कैसे लिखा जाएगा?
(a) HQOG (b) HQNH
(c) HPNG (d) HPOH
2. विकास ने रिया के पिता को देखकर कहा, "मेरे कोई भाई या बहन नहीं है लेकिन रिया के पिता मेरे पिता के पुत्र हैं।" विकास, रिया से किस प्रकार संबंधित है?
(a) भाई (b) पति (c) पिता (d) पुत्र
3. उस संख्या की पहचान करें जो निम्नलिखित श्रृंखला से संबंधित नहीं है। 222, 223, 227, 236, 252, 277, 312
(a) 252 (b) 312 (c) 277 (d) 223
4. एक कतार में पांच सदस्य D, E, F, G और H एक पंक्ति में बैठे हैं, लेकिन उनकी स्थिति नहीं दी गई है। G हमेशा D के पास बैठता है लेकिन D, F के पास नहीं बैठता। H, D के पास नहीं बैठता। E और H के बीच G है। तो नीचे दिए गए विकल्पों में से कौन सा व्यक्ति F के पास नहीं बैठा हो सकता है?
(a) E (b) G (c) D (d) H
5. एक कक्षा में, एक परीक्षा उत्तीर्ण करने वालों में राजू का स्थान ऊपर से सोलहवाँ और नीचे से अठाईसवाँ है। सात छात्र परीक्षा में शामिल नहीं हुए और दो अनुत्तीर्ण हो गए। तो कक्षा में विद्यार्थियों की कुल संख्या कितनी है?
(a) 73 (b) 70 (c) 74 (d) 65
6. चार उत्तर दिए गए हैं, जिनमें से तीन किसी प्रकार से एकसमान हैं और एक अलग है। उस अलग उत्तर का चयन करें।
(a) SATURDAY (b) TUESDAY
(c) THURSDAY (d) MONDAY
7. चार शब्द-युग्म दिए गए हैं, जिनमें से तीन किसी प्रकार से एकसमान हैं और एक अलग है। उस अलग शब्द-युग्म का चयन करें।
(a) डॉक्टर : मरीज (b) जड़ी : सुई
(c) लेखक : कलम (d) शेफ : चाकू
8. निम्नलिखित नियम पर विचार करें और उसी प्रकार से दूसरे शब्द तक संबंधित संख्या ज्ञात करें। PARK:16081121 = SELF : ?
(a) 18051205 (b) 19051105
(c) 19051206 (d) 18051106
9. दिए गए शब्दों के अनुसार क्रम में अगला शब्द चुनें, जो निम्नलिखित शब्दों के प्रारूप का पालन करे (?). KYF, NUK, ?, TMU, WIZ
(a) QPP (b) QQP (c) QQQ (d) PPP
10. यदि शब्द 'OUTSCREAMING' के अक्षरों को अंग्रेजी वर्णमाला के अनुसार पुनर्व्यवस्थित किया जाता है, तो पुनर्व्यवस्था के बाद किसके अक्षरों की स्थिति अपरिवर्तित रहेगी?
(a) तीन (b) एक (c) शून्य (d) दो

General Awareness

11. Arjuna Award is given to _____
(a) Outstanding sports persons (b) Poets
(c) Scientists (d) Actors
12. The main city of Kashmir Valley is _____
(a) Pathankot (b) Srinagar
(c) Kupwara (d) None of these
13. _____ is known as the Land of Midnight Sun
(a) Japan (b) Switzerland
(c) Norway (d) None of these
14. 'Satyameva Jayate' has been taken from _____
(a) Mandok Upanishad (b) Rigveda
(c) Natyasutra (d) Samveda
15. Chilka Lake is situated in _____
(a) Orissa (b) Bihar
(c) Madhya Pradesh (d) None of these
16. _____ is the Supreme Commander of the Armed Forces.
(a) Chief Justice of Supreme Court
(b) Speaker of Lok Sabha
(c) President of India
(d) None of the above
17. Which is the deepest ocean in the world?
(a) Pacific Ocean
(b) Indian Ocean
(c) Arabian Ocean
(d) None of these
18. India liberated Goa from the Portuguese in _____
(a) 1947 (b) 1965 (c) 1961 (d) 1960
19. Paris is situated on the bank of which river?
(a) Seine (b) Thames
(c) Volga (d) None of these
20. National Botanical Garden is situated in which city?
(a) Lucknow (b) Rewa
(c) Jaipur (d) None of these

97. Whose quote is “In practice of tolerance, one’s enemy is the best teacher”?
 (a) Gautama Buddha (b) Mahatma Gandhi
 (c) Barack Obama (d) The Dalai Lama
98. What is Shigmo?
 (a) A Goan Spring Festival
 (b) The tallest pak in Nilgiris
 (c) A type of Rangoli
 (d) One of the Names of Lord Shiva
99. What is C_6H_6 ?
 (a) Chloroform (b) Hydro Chloric Acid
 (c) Benzene (d) toluene
100. What is Oncirology, the study of?
 (a) Gods (b) Dreams
 (c) Sleep (d) Colour

ANSWER KEY

1-d	2-c	3-a	4-c	5-d	6-b	7-c	8-b	9-c	10-a
11-a	12-b	13-a	14-d	15-b	16-c	17-c	18-c	19-a	20-d
21-c	22-b	23-b	24-b	25-c	26-d	27-c	28-b	29-d	30-c
31-c	32-d	33-b	34-a	35-b	36-d	37-c	38-d	39-a	40-c
41-d	42-a	43-d	44-c	45-b	46-d	47-a	48-d	49-b	50-b
51-a	52-d	53-c	54-c	55-c	56-b	57-d	58-b	59-a	60-a
61-d	62-d	63-d	64-d	65-a	66-b	67-c	68-c	69-b	70-b
71-a	72-d	73-b	74-c	75-b	76-c	77-a	78-c	79-b	80-d
81-c	82-a	83-b	84-d	85-c	86-d	87-c	88-d	89-a	90-b
91-c	92-d	93-b	94-b	95-a	96-a	97-d	98-a	99-c	100-b

1. **Tipu Sultan died fighting the English forces under**
(a) Lord Gbnwalls (b) Lord Wellesly
(c) Lord Dalhousie (d) Lord Hastings
2. **The Administration of the English East India Company in India came to an end in**
(a) 1857 (b) 1858 (c) 1862 (d) 1892
3. **From the evolutionary point of view, which one of the following is closer to man**
(a) Dolphin (b) Flying fish
(c) Shark (d) Tortoise
4. **Which one of the following metals is found in "Plaster of Paris"**
(a) Calcium (b) Magnesium
(c) Potassium (d) Sodium
5. **From which year did Saka era begin?**
(a) 78 B.C. (b) 78 A.D.
(c) 178 A.D. (d) 278 A.D.
6. **The ratio of pure gold in 18 carat gold is**
(a) 60% (b) 75% (c) 80% (d) 90%
7. **Major harmful gas emitted by automobile vehicles which causes air pollution is**
(a) Carbon monoxide (b) Methane
(c) Carbon dioxide (d) Ozone gas
8. **A man with colour blindness will see red as**
(a) Yellow (b) Blue (c) Green (d) Voilet
9. **Which of the following is not a foriegn bank working in India?**
(a) HSBC (b) Barclays
(c) Standard chartered (d) Yes Bank
10. **Commercially, sodium bicarbonate is known as**
(a) Washing soda (b) Baking soda
(c) Bleaching powder (d) Soda ash
11. **The headquarters of Asian Development Bank is located in**
(a) Jakart (b) Singapore
(c) Bangkok (d) Manila
12. **Mr. Manohar Lal Khattar was swom in as the 10th Chief Minister of**
(a) Maharashtra (b) Punjab
(c) Haryana (d) Jammu and Kashmir
13. **Man Booker Prize 2014 is won by _____ author Mr. Richard Flanagan.**
(a) Australian (b) British
(c) Japanese (d) Indian
14. **In the Miss World 2014 contest held in London on 14-12-2014. Rolene Strauss of _____ the title "Miss World 2014"**
(a) Italy (b) South Africa
(c) U.S.A (d) Germany
15. **The Vice President of India is elected by**
(a) Members of Lok Sabha
(b) Members of Rajya Sabha
(c) Members of both Houses of Parliament
(d) Member of all State Legislature
16. **The names of the four sons of Mahatma Gandhi are Harilal, Manilal, Ramdas and**
(a) Arun (b) Tushar
(c) Rajmohan (d) Devdas
17. **Expansion of PTI is**
(a) Proper Trade Institution
(b) Press Trust of India
(c) People's Trade Industry
(d) Personal Trust of India
18. **How many letters of the English alphabet (capital) appear same when looked at in a mirror?**
(a) 9 (b) 10 (c) 12 (d) 12
19. **Which one of the follwing plantes has largest number of satellites or moons**
(a) Jupitar (b) Mars (c) Saturn (d) Venus
20. **Which of the following awards is given by UNESCO to those who popularise use of science in life?**
(a) Booker Prize (b) Magnesaysay Award
(c) Kalinga Award (d) Kalidas Samman

(II) General Intelligence And Reasoning Ability

21. **If X and Y are brothers, Z is the sister of X, P is the brother of Q and Q is the daughter of Y, then how is X related to P?**
(a) Brother (b) Brother-in-law (c) Aunt (d) Uncle
22.

	36	
49	26	64
	25	

	9	
81	21	25
	16	

	25	
64	?	144
	36	

(a) 19 (b) 23 (c) 25 (d) 31
23. **2, 3, 6, 11, 18, ?**
(a) 25 (b) 27 (c) 29 (d) 31

43. A new drug delivery system which is composed of phospholipids that spontaneously form a multilamellar concentric bilayer vesicles with layers of aqueous media separating the lipid layers is:
 (a) Prodrugs (b) Liposomes
 (c) Osmotic pumps (d) Nanoparticles
44. The analyte is used in the form of a solution in flame photometry because it should undergo:
 (a) Evaporation (b) Condensation
 (c) Nebulisation (d) Precipitation
45. Isoniazid is a primary antitubercular agent that:
 (a) Requires pyridoxine supplementation
 (b) Causes ocular complications that are reversible if the drug is discontinued
 (c) Is ototoxic and nephrotoxic
 (d) Should never be used due to hepatotoxic potential
46. The mechanism of action of Paclitaxel is:
 (a) Bind to DNA through intercalation between specific bases and block the synthesis of new RNA or DNA, cause DNA strand scission
 (b) Mitotic spindle poison through the enhancement of tubulin polymerization
 (c) Competitive partial agonist or inhibitor of estrogen and binds to estrogen receptors
 (d) S-Phase specific antimetabolite that is converted by deoxykinase to the 5-mononucleotide
47. What is the reagent used for diazotization?
 (a) NaNO_3 + dilute HCl
 (b) KNO_3 + dilute H_2SO_4
 (c) Zn + dilute H_2SO_4
 (d) Tin + H_2SO_4
48. The mechanism of antiparasitic action of Mebendazole and thiabendazole involves:
 (a) Stimulation of acetylcholine receptors at neuromuscular junctions
 (b) Inhibition of dihydropyridine reductase
 (c) Interference with microtubule synthesis and assembly
 (d) Block thiamine transport
49. A $5\text{HT}_{1B/1D}$ receptor agonist useful in migraine is:
 (a) Sumatriptan (b) Ketanserin
 (c) Ergotamine (d) Methysergide
50. A retardant material that forms a hydrophilic matrix tablet is:
 (a) H.P.M.C (b) C.A.P
 (c) Polyethylene (d) Carnauba Wax
51. The Schedule in Drugs and Cosmetic Act that deals with the requirements and guidelines for clinical trials, import and manufacture of new drugs is:
 (a) Schedule O (b) Schedule M
 (c) Schedule F (d) Schedule Y
52. The correct non-ionic surfactant used as penetration enhancer in the preparation of mucoadhesives is:
 (a) Oleic acid (b) Tween – 80
 (c) Glycerol (d) Propylene glycol
53. An agent used in Prinzmetal angina has a smooth muscle relaxant action which increases coronary blood supply is:
 (a) Nitroglycerine (b) Nifedipine
 (c) Timolol (d) Isosorbide mononitrate
54. Unless otherwise stated in the individual monograph of the pharmacopeia, in the disintegration test for enteric coated tablets, first the dissolution is carried out in:
 (a) 0.1 M HCl (b) Phosphate buffer
 (c) Water (d) 0.1M H_2SO_4
55. Lycopodium spore method can be used to find out percentage purity of crude drugs which contain:
 (a) Multi-layered tissues or cells
 (b) Well defined particle which can be counted
 (c) Oil globules
 (d) Characteristic particles of irregular thickness, the length of which can be measured
56. Spinal cord in infants extends upto the level of:
 (a) Lower border of L_1 vertebrae
 (b) Lower border of L_5
 (c) Upper border of S_1
 (d) Lower border of L_3
57. Lower border of scapula is at the level of:
 (a) T_4 (b) T_3 (c) T_9 (d) T_7
58. The length of Adult Trachea is:
 (a) 6 to 8 cm (b) 10 to 11 cm
 (c) 4 to 15 cm (d) 16 to 20 cm
59. Coronary sinus opens into:
 (a) Inferior vena cava (b) Right atrium
 (c) Left atrium (d) Great cardiac veins
60. The longest vein in human body is:
 (a) IVC (b) Cephalic
 (c) Basilic (d) Long saphenous
61. Colour vision is by:
 (a) Rods (b) Cones
 (c) Occipital cortex (d) Bipolar cells
62. The receptors of pain are:
 (a) Ruffini organs (b) Meckel's bodies
 (c) Golgi bodies (d) Free nerve endings
63. BMR is dependent upon:
 (a) Body weight
 (b) Surface area

Pharmacy

- Which of the following reagent is not used for the detection of alkaloids?
 - Mayer's reagent
 - Wagner's reagent
 - Nessler's reagent
 - Dragendorff's reagent
- The use of polar solvents with acidified aqueous solution helps in removing
 - Pigments, sugars and other organic secondary constituents
 - Basic impurities and other organic secondary constituents
 - Pigments and sugars
 - Secondary constituents and pigments
- What is the ideal time for collecting the leaf and flowering tops in vinca
 - Before pollination
 - During autumn or rainy season
 - During spring or early summer
 - Before reaching their flowering stage
- The presence of conjugated system of double bonds in terpenoid can be detected by
 - Ozonolysis
 - Oxidation with chromic acid
 - Diel's Alder reaction
 - Haloform reaction
- Uric acid on mild oxidation with nitric acid gives
 - Urea and hydantoin
 - Urea and mesoxalic acid
 - Allantoin and carbon dioxide
 - Urea and alloxan
- Theophylline is
 - 1,3 dimethyl xanthine
 - 1,3 dimethyl uric acid
 - 3,7 dimethyl xanthine
 - 1,3,7 trimethyl xanthine
- Which is the basic steroidal nucleus
 - Pyridine-pyrrolidine nucleus
 - Phenanthrene nucleus
 - 1,2 cyclopentanoperhydro phenanthrene
 - Indole nucleus
- When oestrone is distilled with zinc dust, it yields chrysene. What does this show
 - Presence of benzenoid ring
 - Presence of three double bonds
 - Presence of ketonic group
 - Presence of steroid nucleus
- Borntrager's test is used for the detection of
 - Saponin glycosides
 - Anthracene glycosides
 - Cardiac glycosides
 - Coumarin glycosides
- Drying quality of high proportion of linoleic acid and linolenic acid is characterized by higher
 - Saponification value
 - Acid value
 - Iodine value
 - Ester value
- What is the synonym of guggul resin
 - Podophyllin
 - Commiphora
 - Bol
 - Lobban
- In which class Furacin is the most effective anti-infective agent
 - Pyridine derivative
 - Thiophane derivative
 - Indole derivative
 - Furan derivatives
- Which is the most effective gaseous sterilizing agent
 - Dibromsalan
 - Tribromsalan
 - Propiolactone
 - Chlorhexidine
- Cotrimoxazole is the combination of
 - Trimethoprim and sulfonamide
 - Sulfisoxazole and phenazopyridine
 - Sulfisoxazole and sulfadiazine
 - Sulfamethoxazole and sulfadiazine
- Griseofulvin is an example of
 - Polypeptide antibiotic
 - Macrolide antibiotic
 - Tetracycline antibiotic
 - Antifungal antibiotic
- The primary mechanism of action of hydroxyl benzyl benzimidazole antiviral is to inhibit
 - Viral RNA polymerase
 - Both DNA and RNA polymerase
 - DNA dependent RNA polymerase
 - Viral RNA synthesis
- Hodgkin's disease can be treated using
 - Busulfan
 - Actinomycin-D
 - Procarbazine
 - Lomustine
- What does the posterior lobe of the pituitary gland release
 - Progesterone and testosterone
 - Prolactin and growth hormone
 - Melanocyte stimulating hormone
 - Oxytocin and antidiuretic hormone
- Ethaacrynic acid is
 - Phenoxy acetic acid derivative
 - Benzothiadiazine derivative
 - Xanthine derivative
 - Anthranilic acid derivative

ANSWER KEY

1-c	2-a	3-d	4-c	5-d	6-a	7-c	8-d	9-b	10-c
11-b	12-d	13-a	14-c	15-d	16-d	17-c	18-d	19-a	20-d
21-a	22-a	23-a	24-a	25-d	26-c	27-c	28-d	29-d	30-b
31-a	32-a	33-c	34-c	35-a	36-a	37-d	38-d	39-d	40-c
41-d	42-a	43-b	44-c	45-b	46-d	47-b	48-d	49-b	50-c
51-a	52-c	53-d	54-d	55-c	56-b	57-c	58-d	59-b	60-d
61-a	62-d	63-c	64-c	65-c	66-d	67-b	68-c	69-d	70-d
71-c	72-b	73-d	74-c	75-a	76-d	77-a	78-c	79-d	80-b
81-b	82-d	83-c	84-c	85-d	86-b	87-d	88-d	89-a	90-d
91-a	92-b	93-c	94-d	95-c	96-b	97-d	98-d	99-a	100-d
101-c	102-c	103-b	104-d	105-b	106-b	107-a	108-b	109-c	110-a
111-a	112-d	113-b	114-b	115-c	116-a	117-a	118-a	119-c	120-a
121-c	122-c	123-d	124-d	125-a	126-a	127-d	128-b	129-a	130-d
131-d	132-d	133-c	134-a	135-d	136-b	137-b	138-a	139-d	140-a
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