

1. A	following?
-	ð í

- Answer: (a) TCP/IP
- **Explanation:** TCP/IP (Transmission Control Protocol/Internet Protocol) is the foundational communication protocol of the internet, enabling data exchange between computers.
- **Reference:** "Computer Networks" by Andrew S. Tanenbaum, 5th Edition, page 89.

2. How ______ GB?

- Answer: (b) 1024 MBs
- **Explanation:** 1 GB (Gigabyte) equals 1024 MB (Megabytes) in computer systems, as they use the binary system where 1 KB = 1024 Bytes, and so on.
- **Reference:** "Operating Systems: Internals and Design Principles" by William Stallings, 9th Edition, page 36.

3. character _____

containing

Answer: (a) ASCII

- **Explanation:** ASCII (American Standard Code for Information Interchange) is a 7-bit encoding standard for text that represents 128 characters, including letters, numbers, and control characters.
- **Reference:** "Computer Organization and Architecture" by William Stallings, 10th Edition, page 120.

4. What _____

____ death?

- **Answer:** (d) ₹1,00,000
- **Explanation:** Under the Pradhan Mantri Jan Dhan Yojana, an account holder is provided accidental insurance cover of ₹1,00,000. This can increase under certain conditions to ₹2,00,000 for accounts opened after August 28, 2018.
- Reference: Government of India scheme details, PMJDY official website.

5. Which ______ Pradesh?

- Answer: (b) Bomdila Pass
- **Explanation:** Bomdila Pass is situated in Arunachal Pradesh and is a key pass connecting the state to the neighboring regions. **Rohtang Pass** is located in Himachal Pradesh, and **Shipki La Pass** is in Himachal Pradesh near the Tibet border.
- Reference: "Indian Geography" by Majid Husain, 8th Edition, page 250.

6. On _____ India?

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- Answer: (b) 1st May
- Explanation: Labour Day, also known as International Workers' Day, is celebrated in India on May 1 to honor the contributions of workers and labor unions.
- **Reference:** "Indian Polity" by M. Laxmikanth, 6th Edition, page 432.

7. Which ______ depreciation?

- Answer: (b) The monetary value of an asset decreases over time due to use, wear, and tear
- **Explanation:** Depreciation refers to the reduction in the value of an asset over time due to wear and tear or obsolescence. The other options refer to specific events, not depreciation.
- **Reference:** "Principles of Accounting" by Weygandt, Kimmel, and Kieso, 13th Edition, page 220.

8. In located?

- Answer: (d) None of these
 Explanation: The Yamuna River flows through cities like Delhi, Agra, and Mathura, but not through Kolkata, Ludhiana, or Lucknow.
- **Reference:** "Geography of India" by Majid Husain, 8th Edition, page 278.

9. The cause?

- **Answer:** (b) Malware
- Explanation: The IT outage at AIIMS Delhi was caused by a malware attack, severely disrupting the hospital's systems and raising concerns about cybersecurity.
- Reference: News reports on AIIMS cyberattack, November 2022.

10. 'Operation _______ states/UTs?

- **Answer:** (a) New Delhi
- **Explanation:** 'Operation Kawach' has been launched to crack down the menace of drugs in the national capital. Under this operation, the Delhi Police apprehended a total of 776 individuals involved in drug offenses. These arrests were made in connection with 615 cases related to the Narcotic Drugs and Psychotropic Substances Act (NDPS). The police have successfully seized approximately 36 kilograms of heroin so far.
- Reference: News updates from 2023, Operation Kawach details.

11. Find sentence: The train reach its destination before time.

• Answer: (b) train reached its destination

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• **Explanation:** The verb "reach" should be in the past tense to agree with the subject and context, making the sentence grammatically correct as "The train reached its destination before time."

12. Find ______ options:

- Answer: (c) Postmortem
- **Explanation:** "Postmortem" is the correct spelling, referring to an examination of a dead body to determine the cause of death.

13. Choose _____

____ sentence:

"Reebok is a famous brand of men's shoes."

- Answer: (a) Reebok
- Explanation:
 - A noun is a word that names a person, place, thing, or idea.
 - In this sentence, "Reebok" is the name of a brand, which is a type of thing.

word:

1<mark>4. Choose ___</mark>

"<mark>Wild</mark>"

- Answer: (b) Quiet
- **Explanation:** "Wild" refers to uncontrolled or untamed behavior, while "quiet" refers to calmness, making it the appropriate antonym.

15. Choose ______ sentence:

"There is a/an antique vase ____ the table."

- Answer: (d) On
- **Explanation:** "On" correctly fits in the blank, indicating the position of the vase in relation to the table. The sentence becomes "There is an antique vase on the table."

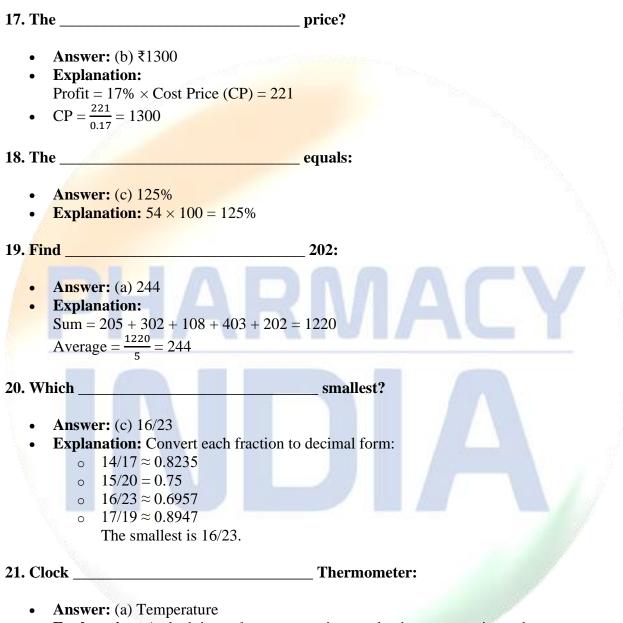
16. In______ **number:** *1, 2, 6, 15, 31, 56, 91.*

- **Answer:** (a) 91
- **Explanation:** The series follows a pattern of adding consecutive triangular numbers to the previous term:
 - 1+1=2
 - o 2+3=6
 - o 6+6=15
 - o 15+10=31
 - 31+15=46 (not 56),

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o 46+21=67

Therefore, 91 is incorrect in the context of this pattern.



• **Explanation:** A clock is used to measure time, and a thermometer is used to measure temperature.

22. If end? Given series: PROFESSORSAURAVSINGHREASONING

• After dropping the vowels (A, E, I, O, U): P,R,F,S,S,R,S,V,S,N,G,H,R,S,N,N,G

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- Counting from the right, the 13th position is **S**.
- Answer: (c) S

23. What ______ legacy?

Given code mapping:

- "Roya Monarch Regal" = @#* •
- "Regal legacy Gold" = *%,? •
- "Hope Gold Life" = % &\$ From the second row:
 - "Gold" = %
 - \circ "legacy" = ?.
- Code for "Gold legacy" = %?
- **Answer:** (b) %?. •

24. How

all?

equation

- Party members:
 - \circ Grandmother = 1 female,
 - \circ Mother = 1 female,
 - \circ Two sons' wives = 2 females,
 - \circ Two daughters of each son = 4 females.
 - Total females = 1+1+2+4=8
- Answer: (a) 8

25. If

- *Equation:* $9 \div 9 3 \times 4 \div 2$
 - Replace symbols based on given meanings:
 - $\circ + \rightarrow \div$ $\circ - \rightarrow \times$
 - $\circ \quad \times \rightarrow +$

 - $\circ \div \rightarrow -$
 - The equation becomes: $9 \div 9 \times 3 + 4 2$
 - Following BODMAS:
 - $\circ 9 \div 9 \times 3 + 4 2$
 - $0 1 \times 3 + 4 2$
 - $\circ 3 + 4 2$
 - $\circ 3 + 4 2$
 - $\circ 7 2 = 5$
 - **Answer:** (d) 5 is correct.

26. Sizes ______ from:

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• Correct Answer: (a) 000 to 5

Explanation: Hard gelatin capsules are classified based on their sizes, with "000" being the largest size and "5" being the smallest. These sizes allow for flexibility in drug formulation depending on the required dosage.

Reference: Ansel's Pharmaceutical Dosage Forms and Drug Delivery Systems, 11th Edition, Page 246.

27. Classification _____ Rauwolfia:

• Correct Answer: (c) Both 1 and 2

Explanation: Rauwolfia contains **indole alkaloids**, such as reserpine, and **pseudo-indoxyl alkaloids**, which are structurally modified indole alkaloids, contributing to its pharmacological properties.

Reference: Kokate, C.K., Purohit, A.P., Gokhale, S.B., Pharmacognosy, 49th Edition, Page 573.

1940:

28. Chapter

• Correct Answer: (a) Chapter III

Explanation: Chapter III of the Drugs and Cosmetics Act, 1940, deals with the import of drugs and cosmetics into India, outlining the legal framework and procedures for ensuring quality and safety.

Reference: The Drugs and Cosmetics Act, 1940, 23rd Edition, Page 18.

29. Direct ______ diseases:

• Correct Answer: (a) Inoculation into the skin

Explanation: Direct transmission occurs when infectious agents are transferred directly into the human body through inoculation, such as needlestick injuries or contact with infected blood.

Reference: K.D. Tripathi, Essentials of Medical Pharmacology, 8th Edition, Page 121.

30. Plasma ______ composition:

• Correct Answer: (c) Water

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Explanation: Plasma makes up about 55% of total blood volume, with water constituting approximately 90-92% of plasma. It serves as a medium for transporting nutrients, hormones, and waste products.

Reference: Tortora, G.J., Derrickson, B., Principles of Anatomy and Physiology, 15th Edition, Page 612.

31. The ______ known as:

• Correct Answer: (b) Chopra Committee

Explanation: The **Chopra Committee** was established in 1930 to assess the situation regarding drug regulation in India and recommend measures to ensure the safety and efficacy of medicines.

Reference: The Drugs and Cosmetics Act and Rules, 23rd Edition, Page 5.

32.	In	midbrain?
	•	Correct Answer: (c) Both 1 and 2
Explanation:		
	1.	The midbrain lies between the medulla oblongata and the diencephalon.
	2.	The tectum of the midbrain is responsible for reflex movements of the head and neck in response to auditory stimuli.

Reference: Tortora, G.J., Derrickson, B., Principles of Anatomy and Physiology, 15th Edition, Page 474.

33. What ____

Busulfan?

• Correct Answer: (a) C6H14O6S2

Explanation: Busulfan is an alkylating agent used in chemotherapy. Its molecular formula is **C6H14O6S2**, representing its chemical structure.

Reference: Foye's Principles of Medicinal Chemistry, 8th Edition, Page 894.

34. What ______ Acetazolamide?

• Correct Answer: (c) C4H6N4O3S2

Explanation: Acetazolamide is a carbonic anhydrase inhibitor, with a molecular formula of **C4H6N4O3S2**, used primarily in glaucoma and diuretic therapy.

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Reference: Foye's Principles of Medicinal Chemistry, 8th Edition, Page 600.

35. Which analgesic?

• Correct Answer: (d) NSAID

Explanation: NSAIDs (Non-Steroidal Anti-Inflammatory Drugs) are non-opioid analgesics used to relieve pain, reduce inflammation, and lower fever. Examples include **ibuprofen** and **aspirin**.

Reference: K.D. Tripathi, Essentials of Medical Pharmacology, 8th Edition, Page 186.

36. What ______ BP?

• **Correct Answer:** (a) **Virazole**

Explanation:

Ribavirin, BP is an antiviral medication primarily used to treat severe respiratory syncytial virus (RSV) infection, hepatitis C, and other viral infections. The proprietary name for Ribavirin is Virazole.

Reference: K.D. Tripathi, *Essentials of Medical Pharmacology*, 8th Edition, Page 804.

37. Which _______ administration?

Correct Answer: (a) The onset of drug action is tardy •

Explanation:

While the oral route is cost-effective, convenient, and avoids complications of parenteral administration, its main disadvantage is the **delayed onset of action**, making it unsuitable for emergencies.

Reference: H.P. Rang, Rang and Dale's Pharmacology, 9th Edition, Page 105.

38. short time.

• Correct Answer: (c) Epidemic

Explanation:

An epidemic occurs when there is a rapid increase in the number of cases of a disease in a particular geographic area over a short time. A **pandemic** affects a global population, while endemic refers to a disease regularly found in a specific area.

Reference: Lippincott, Illustrated Reviews: Microbiology, 4th Edition, Page 250.

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?
?

• Correct Answer: (c) Both I and II

Explanation:

Cephalosporins and Tetracyclines are broad-spectrum antibiotics effective against both Grampositive and Gram-negative bacteria, making them versatile in treatment.

Reference: Katzung, *Basic and Clinical Pharmacology*, 15th Edition, Page 811.

40. What chickenpox?

• Correct Answer: (c) 14 to 21 days

Explanation:

The incubation period for chickenpox (caused by the varicella-zoster virus) is typically 14 to 21 days, during which the virus replicates before symptoms such as rash and fever appear.

Reference: Jawetz, *Medical Microbiology*, 28th Edition, Page 335.

41. Who ______ medicine?

• Correct Answer: (d) Hippocrates

Explanation:

Hippocrates is regarded as the "Father of Medicine" due to his contributions to the systematic study and documentation of diseases and medical ethics, including the Hippocratic Oath.

Reference: K.D. Tripathi, Essentials of Medical Pharmacology, 8th Edition, Page 3.

42. resistant ______ penicillin.

• Correct Answer: (b) Cloxacillin

Explanation:

Cloxacillin/Dicloxacillin - It has an isoxazolyl side chain and is highly penicillinase as well as acid resistant. Activity against PnG sensitive organisms is weaker, and it should not be used as a substitute for PnG. It is more active than methicillin against penicillinase producing Staph, but not against MRSA.

Reference: Katzung, Basic and Clinical Pharmacology, 15th Edition, Page 769.

43. Study _____ called

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• Correct Answer: (a) Angiology

Explanation:

Angiology is the study of blood vessels, lymphatic vessels, and the circulatory system. It includes the understanding of blood flow, vessel structure, and related disorders.

Reference: Guyton and Hall, Textbook of Medical Physiology, 14th Edition, Page 456.

44. What _____body?

• Correct Answer: (c) Both I and II

Explanation:

Flucytosine can cause liver damage and thrombocytopenia as adverse effects. It is an antifungal drug often used in combination therapy but requires monitoring due to its toxicity profile.

Reference: Katzung, Basic and Clinical Pharmacology, 15th Edition, Page 834.

45. Which _

penicillins?

• Correct Answer: (c) Both I and II

Explanation:

- 1. **Penicillins are strong monobasic acids**, which is a characteristic of their beta-lactam structure.
- 2. **Benzylpenicillin (Penicillin G)** is considered the parent compound of the penicillin family and serves as the prototype for penicillin antibiotics.

Reference: Goodman & Gilman, *The Pharmacological Basis of Therapeutics*, 13th Edition, Page 1106.

46. Which _______Nitrazepam?

• Correct Answer: (d) Oral Suspension is not one of its pharmaceutical preparations.

Explanation:

Nitrazepam is typically available as tablets or capsules. It is not commonly prepared in the form of oral suspension.

Reference: British Pharmacopoeia, 2023 Edition, Nitrazepam Monograph, Page 1342.

47. In ______Closure?

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Correct Answer: (b) It should migrate any additive to the preparation.

• Explanation: Elastomers are primarily used as stoppers/closures on parenteral containers.

Properties of elastomers:

- Coring resistance (the ability to resist fragmentation when penetrated by a needle)
- Solvent resistance
- Resistance to radiation
- Resistance to interaction with the packaged components
- Impermeability to gas & moisture
- Flexibility
- **It should withstand the sterilization temperatures.**
- It should provide air-tight closing to the container.
- It should be compatible with the preparation contained in the container.

Reference: Dean, *Pharmaceutical Packaging Technology*, 2nd Edition, Page 278.

48. As _____least:

• Correct Answer: (c) 99.00 percent

Explanation:

The **combustion efficiency** (**CE**) must be at least 99% to ensure the safe and complete disposal of bio-medical waste without harmful emissions.

Reference: Ministry of Environment, Forest and Climate Change, *Bio-Medical Waste Management Rules*, 2016, Rule 7.

49. Which ______Sodium?

• Correct Answer: (c) Depresses the Myocardium

Explanation:

While Thiopental Sodium provides rapid induction and is non-explosive, it can cause myocardial depression, making it a drawback rather than an advantage.

Reference: Katzung, Basic and Clinical Pharmacology, 15th Edition, Page 223.

50. The ______from:

• Correct Answer: (b) 0.1 ml to 30 ml

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Explanation:

Soft gelatin capsules typically contain liquids ranging from 0.1 ml to 30 ml, suitable for various pharmaceutical and nutraceutical formulations.

Reference: Aulton, *Pharmaceutics: The Design and Manufacture of Medicines*, 4th Edition, Page 312.

51. Human _____membranes?

• Correct Answer: (a) Three

Explanation:

The human brain is covered by three membranes collectively known as the **meninges**:

- 1. **Dura mater** (outermost layer).
- 2. Arachnoid mater (middle layer).
- 3. **Pia mater** (innermost layer).

Reference: Tortora & Derrickson, *Principles of Anatomy and Physiology*, 15th Edition, Page 410.

52. What_

suture.

• Correct Answer: (a) Sterile catgut

Explanation:

Sterile catgut is a natural, absorbable suture material made from the intestinal submucosa of sheep or cattle.

Reference: Tripathi, Essentials of Medical Pharmacology, 8th Edition, Page 1221.

53. In ______rate?

• Correct Answer: (a) Number of live births during the year/ Estimated mid-year population

Explanation:

"The crude birth rate (CBR) is equal to the number of live births (Bi) in a year divided by the total midyear population (P), with the ratio multiplied by 1,000 to arrive at the number of births per 1,000 people."

Reference: Park, Preventive and Social Medicine, 26th Edition, Page 455.

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54.	What		writing?
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• Correct Answer: (a) Before meals

Explanation:

"Ante cibos" (a.c.) is a Latin term used in medical prescriptions meaning "before meals".

Reference: Goodman and Gilman, *The Pharmacological Basis of Therapeutics*, 13th Edition, Appendix.

55. Vegetable _____drug?

• Correct Answer: (a) Cinnamon

Explanation: Cinnamon is obtained from the dried inner bark of **Cinnamomum species**, a plant source.

activity.

Reference: Kokate, *Pharmacognosy*, 51st Edition, Page 273.

56. According

• Correct Answer: (a) 6000

Explanation:

Shark liver oil, used as a source of Vitamin A, should meet the standards set by the **Indian Pharmacopoeia** (**I.P.**). It specifies that the oil must contain at least 6000 IU of Vitamin A activity per gram.

Reference: Indian Pharmacopoeia, 2018, Volume 2, Page 1321.

57. In the _____ principle of:

• Correct Answer: (d) Impact and Attrition

Explanation:

In a **ball mill**, size reduction occurs by the combined action of **impact** (collision of balls) and **attrition** (rubbing action). This method is suitable for brittle and crystalline materials.

Reference: Subrahmanyam, Textbook of Physical Pharmaceutics, 2nd Edition, Page 89.

58. Which ______straw'?

• Correct Answer: (a) Section 15

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Explanation:

Section 15 of the **Narcotic Drugs and Psychotropic Substances Act, 1985** deals with penalties for the contravention related to **poppy straw** possession, production, and trafficking.

Reference: Bare Act, *The Narcotics Drugs and Psychotropic Substances Act, 1985*, Section 15, Page 27.

59. In ______cells?

• Correct Answer: (a) Squamous epithelium

Explanation:

Squamous epithelial cells, also known as **pavement epithelial cells**, are thin and flat, forming a smooth surface for easy passage of materials, as seen in the lining of blood vessels and alveoli.

Reference: Tortora & Derrickson, *Principles of Anatomy and Physiology*, 15th Edition, Page 112.

6 <mark>0. In</mark>	correct?
Correct Answer: (d) Neith	er 1 nor 2

Explanation:

- Amino acids are classified as acidic, basic, or neutral based on the number of carboxyl and amino groups in their molecule.
- Acidic amino acids: Have more carboxyl groups than amino groups. Examples include glutamic acid.
- Basic amino acids: Have more amino groups than carboxyl groups. Examples include lysine.
- Neutral amino acids: Have the same number of carboxyl groups as amino groups. Examples include valine.

Reference: Lehninger, Principles of Biochemistry, 7th Edition, Page 128.

61. Proteins _______sources?

• Correct Answer: (a) Only I and II

Explanation:

Proteins are predominantly found in **legumes** (e.g., lentils, chickpeas) and **cereals** (e.g., wheat, rice). **Fruits** do not contribute significantly to protein intake.

Reference: Swaminathan, Essentials of Food and Nutrition, Volume 1, 2nd Edition, Page 140.

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• Correct Answer: (a) Protein-Calorie Malnutrition

Explanation:

PCM is a nutritional disorder caused by an inadequate intake of proteins and calories, leading to conditions such as **marasmus** and **kwashiorkor**.

Reference: Park, Preventive and Social Medicine, 25th Edition, Page 618.

63. Which _____glucose?

• Correct Answer: (a) C6H12O6

Explanation:

Glucose, a simple sugar and primary energy source, has the molecular formula C6H12O6.

Reference: Lehninger, *Principles of Biochemistry*, 7th Edition, Page 240.

6 <mark>4. W</mark> hich	vitamin?	

• Correct Answer: (a) Vitamin B

Explanation:

Water-soluble vitamins include Vitamin B complex and Vitamin C. Vitamins A, D, and E are fat-soluble.

Reference: Swaminathan, Essentials of Food and Nutrition, Volume 1, 2nd Edition, Page 242.

65. Arrange _____last.

• Correct Answer: (a) PQRS

Explanation:

- 1. **P:** Dissolve nickel in steel as Ni(II) ions and oxidize iron to Fe(III).
- 2. **Q:** Selectively precipitate nickel ions using **dimethylglyoxime** (**DMG**) in an alkaline medium.
- 3. **R:** Filter and wash the precipitate.
- 4. **S:** Cool and weigh the precipitate.

Reference: Vogel, Quantitative Chemical Analysis, 6th Edition, Page 634.

66. Which ______humans?

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• Correct Answer: (b) Only II

Explanation:

The spleen is located in the **left half of the viscera**, and its outer surface is in close proximity to the **left kidney**.

Reference: Marieb & Hoehn, Human Anatomy & Physiology, 10th Edition, Page 760.

67. As ______spurious?

• Correct Answer: (c) Both I and II

Explanation:

According to the Act, a drug is deemed spurious if:

- **1.** It is imported under a name that belongs to another drug.
- 2. It falsely claims to be the product of a particular manufacturer.

Reference: Drugs and Cosmetics Act 1940 and Rules 1945, Chapter IV, Section 17B.

68. Which ____

- _doses?
- Correct Answer: (a) Subscription

Explanation:

The **subscription** contains instructions to the pharmacist on how to prepare and dispense the drug, including dosage forms and doses.

Reference: Aulton, *Pharmaceutics: The Design and Manufacture of Medicines*, 5th Edition, Page 220.

69. The ______ device.

• Correct Answer: (d) Progestasert

Explanation:

Progestasert is a third-generation IUD that releases **progesterone**, offering contraceptive benefits. Earlier generations include devices like **Copper-T** (second-generation).

Reference:

• Shaw, *Textbook of Gynecology*, 16th Edition, Page 210.

70. In ______ correct?

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• Correct Answer: (c) Both I and II

Explanation:

- 1. The **first sound (lubb)** is due to the closure of atrioventricular valves (mitral and tricuspid).
- 2. The **second sound (dupp)** is due to the closure of semilunar valves (aortic and pulmonary).

Reference: Tortora & Derrickson, *Principles of Anatomy and Physiology*, 15th Edition, Page 630.

71. Which ______drugs?

• **Correct Answer:** (c) **Both I and II**

Explanation:

- 1. **Replacement by exhausted drugs** involves substituting active ingredients with inert or exhausted drugs.
- 2. Substitution by artificially manufactured substitutes uses synthetic products to mimic genuine ones.

Reference: Trease and Evans, *Pharmacognosy*, 16th Edition, Page 153.

72. In ______ coriander?

• Correct Answer: (a) Only I

Explanation:

- 1. The colour of **coriander** is **yellowish-brown to brown**.
- 2. Its odour is aromatic, which contradicts statement II.

Reference: Kokate, *Pharmacognosy*, 49th Edition, Page 322.

73. Which _____humans?

• Correct Answer: (d) Neither I nor II

Explanation:

- 1. Kyphosis refers to an exaggerated thoracic curve (not lumbar).
- 2. Lordosis refers to an exaggerated lumbar curve (not thoracic).

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Reference: Marieb & Hoehn, Human Anatomy & Physiology, 10th Edition, Page 705.

74. The _______acids?

• Correct Answer: (c) 20

Explanation:

The A chain of insulin contains 20 amino acids, while the B chain contains 30 amino acids.

Reference: Nelson & Cox, Lehninger Principles of Biochemistry, 7th Edition, Page 1026.

75. Balsam _____acid?

• Correct Answer: (c) 13-15

Explanation:

Balsam of Tolu contains 13-15% free cinnamic acid, along with other resin acids.

Reference: Evans, *Trease and Evans Pharmacognosy*, 16th Edition, Page 361.

76. In form?

• Correct Answer: (a) Compounding

Explanation:

• **Compounding** involves preparing and dispensing the drug in the prescribed form. This step ensures proper dosage and form for administration.

Reference: Remington, The Science and Practice of Pharmacy, 22nd Edition, Page 1112.

77. Dopamine ______colour?

• Correct Answer: (d) White

Explanation:

• **Dopamine Hydrochloride** is a **white crystalline powder**, soluble in water and commonly used in treating certain heart conditions.

Reference: British Pharmacopoeia 2023, Monograph on Dopamine Hydrochloride.

78. Which ______drugs?

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• Correct Answer: (c) Both I and II

Explanation:

- **Dissolution**: Determines how quickly a drug becomes available for absorption.
- Crystal form: Different crystal forms can have varied solubility and absorption rates.

Reference: Aulton, *Pharmaceutics: The Design and Manufacture of Medicines*, 4th Edition, Page 207.

79. Which _____Councils'?

• Correct Answer: (a) Chapter III

Explanation:

• **Chapter III** of the Pharmacy Act, 1948 focuses on the establishment, functions, and operations of **State Pharmacy Councils**.

Reference: The Pharmacy Act, 1948, Bare Act with Rules, 2022 Edition, Chapter III.

80. the _____'Colophony'.

• Correct Answer: (c) 75-85 / 75-85

Explanation:

• **Colophony** (rosin) is a resin obtained from pine trees, and its melting point typically ranges between **75-85**°C.

Reference: Kokate, Practical Pharmacognosy, 5th Edition, Page 252.

81. the ______Acid).

• Correct Answer: (a) Scurvy

Explanation:

• Vitamin C deficiency causes **scurvy**, characterized by bleeding gums, poor wound healing, and weakness.

Reference: Guyton and Hall, Textbook of Medical Physiology, 14th Edition, Page 1191.

82. Acetylcholine _______sites.

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• Correct Answer: (a) Four

Explanation:

Acetylcholine (ACh) is a neurohumoral transmitter that mediates impulses at the following four synaptic sites:

1. Autonomic Ganglia

• ACh acts on nicotinic receptors at the synapses between preganglionic and postganglionic neurons in both the sympathetic and parasympathetic divisions of the autonomic nervous system.

2. Parasympathetic Postganglionic Nerve Endings

• ACh interacts with muscarinic receptors at the effector organs (e.g., heart, smooth muscles, and glands) to mediate parasympathetic responses.

3. **Neuromuscular Junction**

• ACh binds to nicotinic receptors on skeletal muscles to initiate muscle contraction.

4. Central Nervous System (CNS)

• ACh functions as a neurotransmitter in various areas of the brain, influencing processes such as learning, memory, and arousal through muscarinic and nicotinic receptors.

Reference: Rang & Dale, Pharmacology, 9th Edition, Page 130.

83. As _____

family?

• Correct Answer: (b) Liliaceae

Explanation:

• **Colchicum** is a natural drug derived from **Colchicum autumnale**, which belongs to the family **Liliaceae**.

Reference: Trease and Evans, *Pharmacognosy*, 16th Edition, Page 223.

84. As ______states?

• Correct Answer: (a) Two

Explanation:

• **Two persons** are nominated by the central government for the Drugs Technical Advisory Board (DTAB) as per the Drugs and Cosmetics Act, 1940.

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Reference: Drugs and Cosmetics Act, 1940 and Rules 1945, Bare Act, Chapter II.

85. Cloxacillin ______ exceeding:

• Correct Answer: (d) 25 degrees

Explanation:

• As per **British Pharmacopoeia (BP)**, **Cloxacillin sodium** must be stored at a temperature **not exceeding 25°C** to maintain its stability.

Reference: British Pharmacopoeia 2023, Monograph on Cloxacillin Sodium.

86. Human ______called:

• Correct Answer: (b) Megaloblastic anemia

Explanation:

• **Megaloblastic anemia** is caused by folic acid deficiency, leading to the production of abnormally large and immature red blood cells.

Reference: Guyton and Hall, Textbook of Medical Physiology, 14th Edition, Page 1203.

87. As

correct?

• Correct Answer: (a) Only I

Explanation:

- **Carminatives**: Coriander is used as a carminative to relieve flatulence.
- **Cardiotonic**: Clove is not a cardiotonic; it is primarily used for its anesthetic and antiseptic properties.

Reference: Kokate, Purohit, Gokhale, Pharmacognosy, 52nd Edition, Page 330.

88. Which ______sugar'?

• Correct Answer: (b) Lactose

Explanation:

• Lactose, commonly called **milk sugar**, is a disaccharide found in milk and dairy products.

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Reference: Lehninger, Principles of Biochemistry, 7th Edition, Page 278.

89. As ______plant?

• Correct Answer: (c) Woods

Explanation:

• Quassia is derived from the wood of Quassia amara and is used as a bitter tonic.

Reference: Trease and Evans, *Pharmacognosy*, 16th Edition, Page 419.

90. weak is ______ a diuretic.

• **Correct Answer:** (a) **Aminophylline**

Explanation:

• **Aminophylline** is a weak diuretic primarily used for its bronchodilator properties in treating respiratory conditions like asthma.

Reference: Goodman & Gilman, *The Pharmacological Basis of Therapeutics*, 13th Edition, Page 857.

91. What

BP, IP?

• Correct Answer: (a) 1,1-Dimethylbiguanide HCl

Explanation:

• Metformin Hydrochloride is chemically named **1,1-Dimethylbiguanide Hydrochloride** and is a widely used antihyperglycemic agent for type 2 diabetes.

Reference: Martindale, The Complete Drug Reference, 38th Edition, Page 1172.

92. What ______insulin?

• Correct Answer: (a) 5778

Explanation:

• Porcine insulin has a molecular weight of approximately **5777.54 Da**, as it is similar in structure to human insulin but with slight variations. Insulin from porcine pancreas, Insulin from hog pancreas.

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Reference: Goodman & Gilman, The Pharmacological Basis of Therapeutics, 13th Edition, Page 679.

93. Which powder?

Correct Answer: (c) **Both I and II**

Explanation:

Dusting powders are externally applied to the skin for antiseptic and antipruritic purposes. They are made by mixing substances like starch, kaolin, or talc.

Reference: Aulton, *Pharmaceutics: The Science of Dosage Form Design*, 5th Edition, Page 430.

94. Which drugs''?

• Correct Answer: (a) Section 4

Explanation:

• Section 4 of the Drugs and Magic Remedies Act, 1954, prohibits misleading advertisements about drugs to ensure public safety and avoid exploitation.

Reference: Drugs and Magic Remedies (Objectionable Advertisements) Act, 1954, Bare Act, Page 3.

95. Calcium teeth?

Correct Answer: (c) **Both I and II**

Explanation:

Calcium and Vitamin D facilitate the absorption of calcium in the intestine, while **phosphorus** is essential for forming the bone matrix.

Reference: Guyton and Hall, *Textbook of Medical Physiology*, 14th Edition, Page 1012.

96. animal ______ surgical

Correct Answer: (b) Silk

Explanation:

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• Silk is a natural protein fibre derived from silkworms and is commonly used as a **non-absorbable suture** material in surgeries.

Reference: K.D. Tripathi, Essentials of Medical Pharmacology, 8th Edition, Page 804.

97. A person ______the persons?

• Correct Answer: (d) O

Explanation:

• Individuals with **O negative** blood type are considered **universal donors** because their blood lacks A, B, and Rh antigens, minimizing the risk of immune reactions during transfusion.

Reference: Guyton and Hall, *Textbook of Medical Physiology*, 14th Edition, Page 477.

98. "H	"Human2016?	
•	Correct Answer: (a) Yellow	
Explai	lanation:	
•	• Yellow bins are designated for the disposal of hur parts, tissues, and organs, as per the Bio-medical V	

Reference: Bio-medical Waste Management Rules, 2016, Government of India Guidelines, Page 12.

99. Which _____

_____ symbol Rx?

• Correct Answer: (c) Superscription

Explanation:

• The symbol **Rx** represents the **superscription** in a prescription, which indicates "take thou" or "recipe" in Latin, signaling the start of instructions to the pharmacist.

Reference: Carter S.J., *Cooper and Gunn's Dispensing for Pharmaceutical Students*, 12th Edition, Page 34.

100. Which _______syndrome?

• Correct Answer: (b) Surfactant

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Explanation:

• **Surfactant therapy** is used to treat or prevent neonatal respiratory distress syndrome by reducing surface tension in the alveoli, improving lung compliance.

Reference: Avery's Diseases of the Newborn, 10th Edition, Page 285.



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