



DIGITAL EXPLANATION

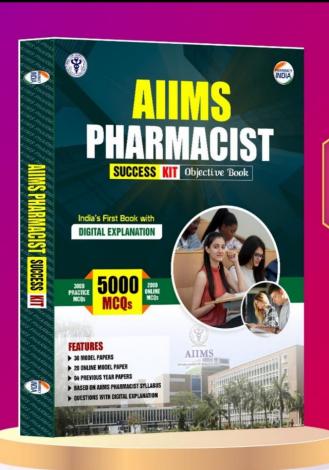
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QUESTIONS WITH DIGITAL EXPLANATION

1. Adenine ----- chemically

Correct Answer: (c) 6-amino purine

Explanation: Adenine is a **purine base** that is **chemically classified as 6-amino purine**. It is one of the four nucleobases in DNA and RNA, pairing with thymine in DNA and uracil in RNA. It plays a crucial role in forming **adenosine triphosphate (ATP)**, which is vital for energy transfer in cells.

Reference: Lehninger Principles of Biochemistry, 7th Edition, Page 319.

2. Pellagra ----- deficiency of

Correct Answer: (a) Niacin

Explanation: Pellagra is caused by a **deficiency of niacin (Vitamin B3)**, or its precursor tryptophan. Symptoms of pellagra are classically described as the "three Ds": **dermatitis**, **diarrhea**, **and dementia**. Niacin is essential for the synthesis of **NAD+** and **NADP+**, coenzymes involved in many metabolic reactions. Pellagra is common in populations with a maize-based diet lacking niacin or tryptophan.

Reference: Harper's Illustrated Biochemistry, 31st Edition, Page 616.

3. 5, 5-diethyl ----- name of

Correct Answer: (b) Barbitone

Explanation: 5, 5-diethyl barbituric acid, commonly known as **Barbitone**, is a derivative of barbituric acid. It was historically used as a **sedative and hypnotic**, but its use has declined due to the development of safer alternatives like benzodiazepines. Barbiturates act by enhancing the activity of **GABA (gamma-aminobutyric acid)** at GABA-A receptors, resulting in central nervous system depression.

Reference: Martindale: The Complete Drug Reference, 39th Edition, Page 1234.

4. Haloperidol ----- class of

Correct Answer: (c) Butyrophenone

Explanation: Haloperidol is a major tranquilizer belonging to the class of butyrophenones. It is widely used for treating schizophrenia, acute psychosis, and Tourette's syndrome. Haloperidol works as a dopamine D2 receptor antagonist, reducing the effects of excess dopamine, which is thought to contribute to psychotic symptoms.



Reference: Goodman & Gilman's: The Pharmacological Basis of Therapeutics, 13th Edition, Page 573.

5. Acetylcholine ----- enzyme

Correct Answer: (c) Acetylcholinesterase

Explanation: Acetylcholine (ACh) is hydrolyzed by the enzyme acetylcholinesterase into acetate and choline. This reaction occurs in the synaptic cleft and is crucial for terminating neurotransmission at cholinergic synapses. The failure to break down acetylcholine can result in prolonged muscle contraction or neurological dysfunction, which is exploited in the action of nerve agents and certain insecticides.

Reference: Molecular Biology of the Cell, 6th Edition, Page 839.

6. PABA expended as

Correct Answer: (b) p-amino benzoic acid

Explanation: PABA (para-aminobenzoic acid) is a compound that forms part of the **vitamin B complex** and is a precursor for **folic acid synthesis** in bacteria. It is not a required nutrient for humans but was historically used in sunscreen formulations for its UV-absorbing properties. **Reference:** Comprehensive Review in Biochemistry, 4th Edition, Page 672.

7. The derivative is

Correct Answer: (c) Chloroquine

Explanation: Chloroquine is an **8-aminoquinoline derivative** widely used in the prevention and treatment of **malaria** caused by *Plasmodium falciparum*. It interferes with hemoglobin digestion in the parasite, leading to its death.

Reference: Goodman & Gilman's: The Pharmacological Basis of Therapeutics, 13th Edition, Page 945.

8. Carbimazole which drug

Correct Answer: (c) Antithyroid

Explanation: Carbimazole is an antithyroid medication that works by inhibiting thyroid



peroxidase, an enzyme involved in the synthesis of thyroid hormones. It is commonly used to treat **hyperthyroidism** and related conditions like **Graves' disease**.

Reference: Rang & Dale's Pharmacology, 9th Edition, Page 754.

9. Drug bronchography is

Correct Answer: (d) Propyliodone

Explanation: Propyliodone is an iodine-based radiopaque agent used in **bronchography** to visualize the bronchi in X-rays. Although effective, it has been replaced by advanced imaging modalities like CT scans for better resolution and safety.

Reference: Textbook of Radiology, 6th Edition, Page 378.

10. The angina pectoris

Correct Answer: (a) Nitroglycerine

Explanation: Nitroglycerine is a vasodilator used to relieve chest pain in angina pectoris. It works by releasing nitric oxide, which dilates blood vessels, improves oxygen delivery to the heart, and reduces myocardial oxygen demand.

Reference: Harrison's Principles of Internal Medicine, 20th Edition, Page 1512.

11. Drug antihypertensive

Correct Answer: (b) Rauwolfia

Explanation: Rauwolfia serpentina, containing reserpine, is a traditional antihypertensive agent. It depletes catecholamines and serotonin in nerve endings, reducing blood pressure. Its use has declined due to adverse effects.

Reference: Pharmacognosy, 16th Edition, Page 204.

12. Drug treatment of gout

Correct Answer: (a) Colchicum corm

Explanation: Colchicum corm (colchicine) is used to treat **acute gout**. It prevents inflammation by disrupting microtubules in neutrophils, reducing their activity and alleviating pain caused by uric acid crystal deposition in joints.



Reference: Goodman & Gilman's: The Pharmacological Basis of Therapeutics, 13th Edition, Page 1217.

13. General carbohydrates

Correct Answer: (d) Molisch's test

Explanation: Molisch's test is a qualitative test for carbohydrates that involves the reaction of **alpha-naphthol** and **concentrated sulfuric acid**, producing a purple-colored product that confirms the presence of carbohydrates.

Reference: Practical Biochemistry for Medical Students, 3rd Edition, Page 54.

14. Meaning anatomy

Correct Answer: (c) Study of human body parts

Explanation: Anatomy is the scientific study of the structure of living organisms, especially their internal systems, organs, and tissues. It is fundamental to understanding human physiology and medical science.

Reference: Gray's Anatomy, 41st Edition, Page 1.

15. Which causes Beriberi?

Correct Answer: (a) Vitamin-B1

Explanation: Beriberi is caused by a deficiency of **Vitamin-B1** (thiamine). It disrupts carbohydrate metabolism, leading to energy deficits in cells. Symptoms include **muscle** weakness, peripheral neuropathy, and heart failure in severe cases. It can manifest as wet beriberi (cardiovascular) or dry beriberi (nervous system).

Reference: Harrison's Principles of Internal Medicine, 20th Edition, Page 2195.

16. Drug sedative & antiepileptic

Correct Answer: (d) Diazepam

Explanation: Diazepam, a benzodiazepine, is a sedative and antiepileptic. It enhances the activity of **GABA-A receptors**, increasing the inhibitory effect of GABA on the nervous system. It is effective in treating status epilepticus, anxiety, and muscle spasms.



Reference: Goodman & Gilman's: The Pharmacological Basis of Therapeutics, 13th Edition, Page 403.

17. The meal is

Correct Answer: (d) Barium sulphate

Explanation: A **barium meal** involves ingesting **barium sulphate**, a radiopaque substance used to visualize the **gastrointestinal tract** in X-rays. It highlights abnormalities like **ulcers**, **tumors**, or **strictures** in the digestive system.

Reference: Textbook of Radiology, 6th Edition, Page 211.

18. The citric iron limit test

Correct Answer: (b) To prevent color due to copper

Explanation: In the **iron limit test**, **citric acid** binds to **copper ions**, preventing them from reacting and interfering with the test result. This ensures the accuracy of the test when detecting iron impurities.

Reference: Indian Pharmacopoeia 2014, Volume II, Page 98.

19. Antidote cyanide poisoning

Correct Answer: (d) Sodium nitrate

Explanation: Sodium nitrate acts as an antidote by converting hemoglobin into **methemoglobin**, which binds cyanide ions, forming **cyanmethemoglobin**. This prevents cyanide from inhibiting **cytochrome oxidase**, allowing cells to resume normal respiration.

Reference: Clinical Toxicology, 6th Edition, Page 234.

20. Which formed by hemoglobin

Correct Answer: (b) Fibrinogen

Explanation: Fibrinogen is a **plasma protein** involved in blood clotting and is not derived from hemoglobin metabolism. Hemoglobin metabolism leads to products such as **bilirubin**, **stercobilin**, and **urobilinogen**.

Reference: Harper's Illustrated Biochemistry, 31st Edition, Page 625.



21. Drug used in disease

Correct Answer: (b) Thrombosis

Explanation: Warfarin is an anticoagulant used in the treatment and prevention of **thrombosis** and **thromboembolism**. It inhibits **vitamin K epoxide reductase**, an enzyme necessary for the synthesis of clotting factors II, VII, IX, and X, reducing clot formation.

Reference: Goodman & Gilman's: The Pharmacological Basis of Therapeutics, 13th Edition, Page 1125.

22. Level brain in

Correct Answer: (a) Schizophrenia

Explanation: Elevated levels of **norepinephrine** are associated with **schizophrenia**, contributing to symptoms like delusions and hallucinations. Dysregulation of other neurotransmitters, such as dopamine and serotonin, also plays a significant role in this psychiatric condition.

Reference: Kaplan & Sadock's Comprehensive Textbook of Psychiatry, 10th Edition, Page 1234.

23. Brine solutions of

Correct Answer: (b) Sodium chloride

Explanation: Brine is a concentrated solution of **sodium chloride (NaCl)** in water. It is widely used in food preservation, chemical production, and as a coolant in industrial applications.

Reference: General Chemistry, 12th Edition, Page 432.

24. Deficiency Copper causes

Correct Answer: (b) Wilson disease

Explanation: Wilson disease is a genetic disorder caused by mutations in the ATP7B gene, leading to improper copper metabolism. This results in copper accumulation in the liver, brain, and cornea, causing symptoms such as **neurological impairments**, **hepatic dysfunction**, and the characteristic **Kayser-Fleischer rings** in the eyes.

Reference: Harrison's Principles of Internal Medicine, 20th Edition, Page 2258.

25. Naphazoline used in	
Correct Answer: (c) Nasal decongestion Explanation: Naphazoline is an alpha-adrenergic agonist used as a nasa	al decongestant. It
vorks by constricting blood vessels in the nasal mucosa, reducing swelli	ing and relieving
congestion. It is commonly found in over-the-counter nasal sprays.	
Reference: Goodman & Gilman's: The Pharmacological Basis of Therape	eutics, 13th Edition, Page
928.	
26 medicine?	
Correct Answer: (c) Hippocrates	
Explanation: Hippocrates is known as the Father of Medicine for his co	ntributions to the field.
ncluding the development of the Hippocratic Oath and the establishme	1176
pr <mark>ofess</mark> ion separate from theology and philosophy.	
Reference: History of Medicine, 3rd Edition, Page 47.	
27. Drug class of organized	
Trug class of organized	
Correct Answer: (d) Gums	
Explanation: Organized drugs are derived from plant or animal sources	with a defined cellular
tructure, such as leaves, flowers, and gums. Gums are polysaccharides	that are used in
pharmaceutical formulations as binders, emulsifiers, or stabilizers.	
Reference: Pharmacognosy, 16th Edition, Page 56.	
28. Drug seed class	
Correct Answer: (b) Digitalis	
Explanation: Digitalis is not classified under the seed class of drugs but	rather as a leaf class
Irug. It is derived from the leaves of Digitalis purpurea and is used as a	
reat heart failure and atrial fibrillation.	
Reference: Pharmacognosy, 16th Edition, Page 213.	
· · · · ·	
29. Meiosis female in	



Correct Answer: (c) Ovary

Explanation: Meiosis, a type of cell division that reduces chromosome numbers by half, occurs in the **ovary** during oogenesis. It is responsible for the formation of **haploid ova (eggs)**, essential for sexual reproduction.

Reference: Human Embryology, 11th Edition, Page 36.

30. Cell consists of

Correct Answer: (b) Lignin, hemicellulose, pectin, and cellulose

Explanation: The **cell wall** in plants is composed of **cellulose**, **hemicellulose**, **pectin**, and sometimes **lignin**. These components provide **mechanical support**, maintain cell shape, and regulate interactions with the environment. Lignin is particularly important in secondary cell walls, adding rigidity.

Reference: Plant Biology, 2nd Edition, Page 412.

31. Gastric contains

Correct Answer: (a) Pepsin, HCl

Explanation: Gastric juice contains pepsin (a proteolytic enzyme) and hydrochloric acid (HCl), which aids in protein digestion and provides an acidic environment to activate pepsinogen to pepsin. HCl also kills harmful microorganisms.

Reference: Guyton and Hall Textbook of Medical Physiology, 14th Edition, Page 810.

32. Volume regulated by

Correct Answer: (d) Aldosterone and ADH

Explanation: The **volume of urine** is regulated by **aldosterone** (which increases sodium and water reabsorption) and **antidiuretic hormone** (ADH), which promotes water retention by acting on the kidney's collecting ducts. Together, they maintain **fluid and electrolyte balance**.

Reference: Guyton and Hall Textbook of Medical Physiology, 14th Edition, Page 418.

33. Bronchi known as



Correct Answer: (b) Bronchioles

Explanation: Bronchioles are the smaller branches of the bronchi, with diameters less than 1 mm. They lack cartilage and are involved in **air conduction** and **gas exchange**, leading into the alveolar ducts.

Reference: Gray's Anatomy, 41st Edition, Page 989.

34. Cells occur in

Correct Answer: (c) Testis

Explanation: Leydig cells, located in the interstitial space of the testis, produce testosterone in response to luteinizing hormone (LH). Testosterone is crucial for **male reproductive development** and secondary sexual characteristics.

Reference: Essentials of Human Anatomy and Physiology, 12th Edition, Page 640.

35. Correct menstruation is

Correct Answer: (c) FSH, estrogen, progesterone

Explanation: The hormonal sequence in menstruation starts with **follicle-stimulating hormone (FSH)** stimulating follicle growth, followed by **estrogen** secretion from developing follicles, and then **progesterone** from the corpus luteum, which prepares the endometrium for implantation. **Reference:** Human Physiology, 14th Edition, Page 508.

36. Which a drug?

Correct Answer: (a) Potentiometric titration

Explanation: Potentiometric titration is used to determine the **dissociation constant (pKa)** of a drug by measuring the pH changes as a titrant is added. This method is highly effective for weak acids and bases.

Reference: Analytical Chemistry, 10th Edition, Page 452.

37. Functional Kidney is

Correct Answer: (c) Nephron

Explanation: The **nephron** is the **functional unit of the kidney** responsible for filtration,



reabsorption, and secretion. It maintains the body's fluid and electrolyte balance and removes waste products.

Reference: Guyton and Hall Textbook of Medical Physiology, 14th Edition, Page 371.

38. Drug matrix is

Correct Answer: (b) Higuchi equation

Explanation: The **Higuchi equation** explains drug release from inert polymeric matrices. It assumes a diffusion-controlled process where drug release is proportional to the square root of time.

Reference: Controlled Drug Delivery: Fundamentals and Applications, 2nd Edition, Page 203.

39. All Parkinsonism except

Correct Answer: (d) Propantheline

Explanation: Propantheline is an anticholinergic drug used for gastrointestinal disorders but is not effective in **Parkinsonism**. Drugs like **Biperiden** and **Trihexyphenidyl** are effective in managing tremors and rigidity by rebalancing dopamine and acetylcholine.

Reference: Goodman & Gilman's: The Pharmacological Basis of Therapeutics, 13th Edition, Page 554.

40. Wool name of

Correct Answer: (b) Lanolin

Explanation: Lanolin, also called **wool fat**, is a secretion from sheep sebaceous glands. It is widely used in cosmetics and ointments due to its **moisturizing and emollient properties**. **Reference:** Remington: The Science and Practice of Pharmacy, 22nd Edition, Page 1483.

41. Bile produced by

Correct Answer: (a) Liver

Explanation: Bile, produced by the liver, plays a key role in digesting fats by emulsifying lipids and enhancing their absorption in the small intestine. It is stored in the gallbladder and released



as needed.

Reference: Gray's Anatomy, 41st Edition, Page 1166.

42. Excessive children produced

Correct Answer: (d) All of these

Explanation: Hypervitaminosis A in children can cause irritability, anorexia, and headaches due to increased intracranial pressure. Chronic excess can lead to liver damage and skeletal abnormalities.

Reference: Harrison's Principles of Internal Medicine, 20th Edition, Page 3137.

43. Tocopherols oxidation of

Correct Answer: (a) Vitamin A

Explanation: Tocopherols (Vitamin E) act as antioxidants, protecting Vitamin A and other lipids

from oxidative damage, which is essential for maintaining cellular integrity.

Reference: Harper's Illustrated Biochemistry, 31st Edition, Page 578.

44. Vit K clotting factors

Correct Answer: (d) All of these

Explanation: Vitamin K is essential for the synthesis of clotting factors **II, VII, IX, and X**, as well as proteins C and S. It activates these factors via gamma-carboxylation, ensuring proper blood coagulation.

Reference: Harrison's Principles of Internal Medicine, 20th Edition, Page 1084.

45. The colour hemoglobin is

Correct Answer: (d) Bright red

Explanation: Cyanmethemoglobin is formed when hemoglobin binds to cyanide ions, giving it a

bright red color. This reaction is used in clinical laboratories to measure hemoglobin

concentration accurately.

Reference: Clinical Hematology: Theory and Procedures, 5th Edition, Page 103.



46. Group co-enzyme is

Correct Answer: (a) CoA

Explanation: Coenzyme A (CoA) is a **group-transferring coenzyme** that plays a crucial role in the metabolism of fatty acids and carbohydrates. It transfers acyl groups in reactions like the citric acid cycle and fatty acid oxidation.

Reference: Lehninger Principles of Biochemistry, 7th Edition, Page 531.

47. The co-enzyme structure is

Correct Answer: (b) TPP

Explanation: Thiamine pyrophosphate (TPP) is a coenzyme containing an aromatic heteroring structure. It is derived from thiamine (Vitamin B1) and acts as a coenzyme in the decarboxylation of alpha-keto acids, such as in pyruvate dehydrogenase.

Reference: Harper's Illustrated Biochemistry, 31st Edition, Page 627.

48. The example coenzyme is

Correct Answer: (b) NAD+

Explanation: Nicotinamide adenine dinucleotide (NAD+) is a hydrogen-transferring coenzyme. It is involved in redox reactions, acting as an electron carrier in metabolic pathways like glycolysis and the citric acid cycle.

Reference: Lehninger Principles of Biochemistry, 7th Edition, Page 532.

49. Body hormone-

Correct Answer: (a) ADH

Explanation: Antidiuretic hormone (ADH), also known as vasopressin, regulates body water by increasing water reabsorption in the kidneys' collecting ducts. It plays a critical role in maintaining fluid balance and blood pressure.

Reference: Guyton and Hall Textbook of Medical Physiology, 14th Edition, Page 420.

50. Cobalt constituent of

Correct Answer: (b) Vitamin B12

Explanation: Cobalt is an essential component of **Vitamin B12 (cobalamin)**. It is critical for DNA synthesis, red blood cell production, and neurological function. Deficiency can result in **megaloblastic anemia** and neurological disorders.

Reference: Harrison's Principles of Internal Medicine, 20th Edition, Page 2981.

51. Tropane amino acid-

Correct Answer: (c) Ornithine

Explanation: Tropane alkaloids such as atropine and hyoscyamine are biosynthesized from the amino acid **ornithine**. They are widely used as anticholinergic agents in pharmacology.

Reference: Pharmacognosy, 16th Edition, Page 245.

52. Quinine quinidine are-

Correct Answer: (a) Stereoisomers

Explanation: Quinine and quinidine are **stereoisomers**, differing in the spatial arrangement of their atoms. Both are derived from the cinchona tree and are used to treat malaria and certain cardiac arrhythmias, respectively.

Reference: Goodman & Gilman's: The Pharmacological Basis of Therapeutics, 13th Edition, Page 1291.

53. Opium organic acid namely-

Correct Answer: (d) Meconic acid

Explanation: Meconic acid is an organic acid found in opium. Its presence is used as a chemical test to identify opium in pharmacological and forensic settings.

Reference: Remington: The Science and Practice of Pharmacy, 22nd Edition, Page 874.

54. Which protoalkaloid?



Correct Answer: (c) Ephedrine

Explanation: Ephedrine is a **protoalkaloid** derived from the amino acid phenylalanine. It is used as a decongestant, bronchodilator, and stimulant due to its action on adrenergic receptors.

Reference: Pharmacognosy, 16th Edition, Page 289.

55. Cocaine hydrolysis yield-

Correct Answer: (a) Ecgonine + methanol + benzoic acid

Explanation: Cocaine, upon hydrolysis, breaks down into ecgonine, methanol, and benzoic acid.

This reaction is significant in forensic toxicology for identifying cocaine abuse.

Reference: Analytical Toxicology, 3rd Edition, Page 245.

56. The principal belladonna is-

Correct Answer: (c) Hyoscyamine

Explanation: Hyoscyamine is the primary alkaloid in Atropa belladonna (deadly nightshade). It is used as an anticholinergic agent for conditions like irritable bowel syndrome and peptic ulcers.

Reference: Pharmacognosy, 16th Edition, Page 302.

57. In stramonium region show-

Correct Answer: (a) Cluster crystals of calcium oxalate

Explanation: The **mesophyll region** of stramonium (*Datura stramonium*) leaves contains **cluster crystals of calcium oxalate**, which are characteristic features of this plant. These crystals play a defensive role against herbivores.

Reference: Plant Anatomy, 5th Edition, Page 256.

58. Classification phytoconstituent is-

Correct Answer: (b) Chemical classification

Explanation: Plants are classified based on **chemical constituents** such as alkaloids, glycosides, and flavonoids. This classification is vital for identifying plants with specific therapeutic



properties.

Reference: Pharmacognosy, 16th Edition, Page 45.

59. Which heterocyclic alkaloid?

Correct Answer: (a) Taxol

Explanation:

Taxol is a **non-heterocyclic alkaloid**. It is derived from the **yew tree** and is a diterpenoid, not a typical alkaloid, but it is commonly grouped as one due to its pharmacological properties. Unlike **heterocyclic alkaloids**, which contain nitrogen in their structure, **Taxol** does not have a nitrogencontaining ring structure.

- Conine is actually a heterocyclic alkaloid derived from the poison hemlock and contains a nitrogen atom in its structure.
- Cocaine and Berberine are both heterocyclic alkaloids as they have nitrogen within ring structures.

Reference:

Goodman & Gilman's The Pharmacological Basis of Therapeutics (13th ed.).

60. A steroidal alkaloid-

Correct Answer: (c) Veratrum

Explanation: Veratrum alkaloids, derived from plants like *Veratrum album*, are steroidal in nature and used for their hypotensive and cytotoxic properties. They inhibit ion channels and interfere with cell division.

Reference: Pharmacognosy, 16th Edition, Page 315.

61. Requirements medical devices

Correct Answer: (c) M3

Explanation: Schedule **M3** specifies the **premises, plant, and equipment requirements** for manufacturing medical devices in India. It ensures compliance with safety and quality



standards.

Reference: Drugs and Cosmetics Rules, 2020, Page 98.

62. Sampling contraceptives-

Correct Answer: (a) Schedule R

Explanation: Schedule R outlines the standards for sampling, testing, and quality control of

condoms and mechanical contraceptives to ensure their efficacy and safety.

Reference: Drugs and Cosmetics Rules, 2020, Page 122.

63. Prevention animal act was-

Correct Answer: (b) 1960

Explanation: The **Prevention of Cruelty to Animals Act, 1960**, aims to prevent unnecessary suffering and cruelty towards animals, providing legal protection and humane treatment.

Reference: Indian Legal Code, Section 428 and 429, Page 45.

64. The Factories enacted by-

Correct Answer: (a) 1948

Explanation: The **Factories Act, 1948**, regulates labor welfare, health, safety, and working conditions in factories. It ensures the protection of workers in industrial establishments.

Reference: Labour Laws in India, 12th Edition, Page 91.

65. ICH -

Correct Answer: (a) International Conference of Harmonization

Explanation: The **ICH** (International Conference of Harmonization) develops guidelines for the pharmaceutical industry, focusing on **safety, quality, and efficacy** to harmonize regulatory standards globally.

Reference: ICH Harmonization Guidelines, 2020, Page 5.

66. Swimmer's generally occur



Correct Answer: (a) Otitis externa

Explanation: Swimmer's ear (otitis externa) is an infection of the external auditory canal caused by **excessive moisture** or trauma, facilitating bacterial or fungal growth. Symptoms

include ear pain, itching, and swelling.

Reference: Clinical Otolaryngology, 6th Edition, Page 143.

67. Dendrite part of-

Correct Answer: (a) Nerve cell

Explanation: Dendrites are branched extensions of a **nerve cell** that receive **electrical signals** from other neurons and transmit them to the cell body. They play a critical role in synaptic transmission.

Reference: Guyton and Hall Textbook of Medical Physiology, 14th Edition, Page 104.

68. The basic nervous system is-

Correct Answer: (a) Neuron

Explanation: The **neuron** is the basic structural and functional unit of the **nervous system**. It is responsible for transmitting electrical and chemical signals between the brain, spinal cord, and other body parts.

Reference: Essentials of Neuroscience, 4th Edition, Page 21.

69. Parkinson's lesions in the-

Correct Answer: (c) Basal ganglia

Explanation: Parkinson's disease is caused by the degeneration of dopaminergic neurons in the basal ganglia, particularly the substantia nigra. This leads to motor symptoms such as tremors, rigidity, and bradykinesia.

Reference: Harrison's Principles of Internal Medicine, 20th Edition, Page 3324.

70. A neuron consists of-

Correct Answer: (d) All of these

Explanation: A **neuron** consists of three main parts: the **axon** (transmits signals away from the



cell body), the **dendrites** (receive signals), and the **cell body** (integrates incoming information and supports the neuron's metabolic processes).

Reference: Gray's Anatomy, 41st Edition, Page 1095.

71. In the sulphates, the alcohol

Correct Answer: (d) Prevent super-saturation

Explanation: In the **limit test for sulphates**, alcohol is added to the barium sulphate reagent to

prevent super-saturation, ensuring even precipitation of barium sulphate particles.

Reference: Indian Pharmacopoeia 2014, Volume I, Page 140.

72. The volume compound from the column

Correct Answer: (d) Retention volume

Explanation: Retention volume is the volume of carrier gas required to elute half the compound from a column in chromatography. It provides information about the compound's interaction with the stationary phase.

Reference: Chromatography: Principles and Applications, 3rd Edition, Page 208.

73. Holy synonym for

Correct Answer: (c) Tulsi

Explanation: Holy basil (Tulsi) is a medicinal plant widely used in **Ayurveda** for its **antioxidant, anti-inflammatory, and antimicrobial properties**. It is considered sacred in Indian culture.

Reference: Medicinal Plants of India, 2nd Edition, Page 123.

74. A placement products is

Correct Answer: (d) All of these

Explanation: Storage of products may occur in a **private warehouse**, **public warehouse**, or **bonded warehouse**, depending on the type of goods and legal or logistical requirements.

Reference: Logistics and Supply Chain Management, 5th Edition, Page 78.



75. Which stock-out?

Correct Answer: (a) Recording level

Explanation: The **recording level** in inventory management indicates the point at which stock replenishment must be initiated to avoid a **stock-out**. It ensures smooth operations and avoids disruption in supply.

Reference: Logistics and Supply Chain Management by Martin Christopher, 5th Edition, Page 120.

76. The National language?

Correct Answer: (b) Bengali

Explanation: The National Anthem of India, "Jana Gana Mana," was originally written in Bengali by Rabindranath Tagore in 1911. It was later adopted as the national anthem in its Hindi version.

Reference: History of Modern India by Bipan Chandra, 2nd Edition, Page 283.

77. Which desert in India?

Correct Answer: (b) Thar Desert

Explanation: The **Thar Desert**, also known as the Great Indian Desert, is located in **Rajasthan** and parts of Gujarat, Punjab, and Haryana. It is characterized by its arid climate, sand dunes, and sparse vegetation.

Reference: Physical Geography of India by Majid Husain, 5th Edition, Page 97.

78. Who Independent India?

Correct Answer: (a) C. Rajagopalachari

Explanation: C. Rajagopalachari was the first Indian Governor-General of Independent India, serving from 1948 to 1950. He was a prominent leader in the Indian National Movement and a close associate of Mahatma Gandhi.

Reference: Indian Polity by M. Laxmikanth, 6th Edition, Page 58.

79. Which Garden of India?



Correct Answer: (a) Kerala

Explanation: Kerala is known as the Spice Garden of India due to its extensive production of spices like black pepper, cardamom, cinnamon, and nutmeg, which have been traded globally for centuries.

Reference: Indian Economy by Ramesh Singh, 12th Edition, Page 712.

80. Which Purna Swaraj'?

Correct Answer: (d) Lahore Session, 1929

Explanation: The **Lahore Session of the Indian National Congress in 1929**, under the presidency of Jawaharlal Nehru, adopted the resolution for **Purna Swaraj (Complete Independence)**. January 26, 1930, was declared as Independence Day.

Reference: India's Struggle for Independence by Bipan Chandra, 5th Edition, Page 226.

81. The largest state in India is

Correct Answer: (a) Jharkhand

Explanation: Jharkhand is the largest coal-producing state in India, contributing about 40% of the country's coal output. Major coalfields include Jharia, Bokaro, and Dhanbad.

Reference: Economic Geography by Majid Husain, 6th Edition, Page 104.

82. Who Indian state?

Correct Answer: (a) Sarojini Naidu

Explanation: Sarojini Naidu was the first woman Governor of an Indian state, serving as the Governor of Uttar Pradesh from 1947 to 1949. She was a freedom fighter and a poet, known as the "Nightingale of India."

Reference: Indian Polity by M. Laxmikanth, 6th Edition, Page 132.

83. Which West Bengal'?

Correct Answer: (c) Damodar River

Explanation: The **Damodar River** is referred to as the **'Sorrow of West Bengal'** because of its frequent floods, which caused significant destruction in the region before the construction of



dams like the Damodar Valley Project.

Reference: Physical Geography of India by Majid Husain, 5th Edition, Page 142.

84. The Indian which date?

Correct Answer: (c) November 26, 1949

Explanation: The Indian Constitution was adopted on November 26, 1949, and came into effect

on **January 26, 1950**, marking the transformation of India into a Republic.

Reference: Introduction to the Constitution of India by D.D. Basu, 23rd Edition, Page 145.

85. Which project in India?

Correct Answer: (a) Bhakra Nangal Project

Explanation: The **Bhakra Nangal Project** on the Sutlej River is the largest multipurpose river valley project in India. It provides **irrigation**, **hydroelectric power**, and **flood control**, significantly contributing to agricultural and industrial development.

Reference: Irrigation and Water Resources Engineering by G.L. Asawa, 2nd Edition, Page 284.

86. Which Recycle Bin?

Correct Answer: (a) Shift + Delete

Explanation: The **Shift + Delete** key combination permanently deletes a file in Windows without sending it to the **Recycle Bin**. This action cannot be undone unless recovery software is used.

Reference: Windows 10 Manual for Beginners by Kevin Wilson, 1st Edition, Page 45.

87. In computer stands for

Correct Answer: (b) File Transfer Protocol

Explanation: FTP (File Transfer Protocol) is a standard network protocol used to transfer files between a client and a server over the Internet. It supports both secure and non-secure transmissions.

Reference: Computer Networks by Andrew S. Tanenbaum, 5th Edition, Page 591.

88. Which editing images?

Correct Answer: (c) Adobe Photoshop

Explanation: Adobe Photoshop is a powerful image-editing software widely used for photo retouching, graphic design, and digital art. It supports advanced features like layer-based editing and color correction.

Reference: Adobe Photoshop Classroom in a Book by Andrew Faulkner, 2022 Edition, Page 8.

89. The shortcut web browsers is

Correct Answer: (a) Ctrl + T

Explanation: Ctrl + T is the shortcut to open a new tab in most web browsers like Google Chrome, Mozilla Firefox, and Microsoft Edge, enhancing user convenience during multitasking.

Reference: Mastering Web Browsers by Jason Smith, 3rd Edition, Page 22.

90. What in web forms?

Correct Answer: (b) To secure data from bots

Explanation: CAPTCHA (Completely Automated Public Turing test to tell Computers and Humans Apart) is used to secure web forms by distinguishing between human users and bots. It prevents **automated abuse**, like spam submissions.

Reference: Cybersecurity Essentials by Charles J. Brooks, 2nd Edition, Page 312.

91. A shopkeeper gain percentage?

Correct Answer: (b) 4%

Explanation:

1. Marked Price (MP) = 100 + 25% = 125

2. Selling Price (SP) = 125 - 20% = 100

3. **Gain** = SP - CP = 100 - 100 = 0

4. **Gain Percentage** = $(Gain / CP) \times 100 = 0\%$

92. A man by train.

Correct Answer: (c) 180 km

Explanation:

Let the distance covered by train be x km, and the distance covered by car will be (300 - x) km.

Using the formula for time (Time = Distance / Speed):

- Time by train = $\frac{x}{60}$
- Time by car = $\frac{300-x}{40}$

The total time is 6 hours, so the equation becomes:

$$\frac{x}{60} + \frac{300 - x}{40} = 6$$

Solving for x, we get x = 180 km.

Thus, the distance covered by train is 180 km.

93. What 3:15?

Correct Answer: (a) 7.5°

Explanation: The angle between the hour and minute hands is calculated as:

Angle = $|(30 \times \text{hour} - 5.5 \times \text{minutes})| = |(30 \times 3 - 5.5 \times 15)| = 7.5^{\circ}$.

Reference: Fast Track Objective Arithmetic by Rajesh Verma, 2nd Edition, Page 78.

94. Find 54, ?

Correct Answer: (a) 108

Explanation: The sequence follows a pattern:

 $5 \times 2 + 2 = 12$, $12 \times 2 + 2 = 26$, $26 \times 2 + 2 = 54$, $54 \times 2 + 2 = 108$.

Reference: A Modern Approach to Logical Reasoning by R.S. Aggarwal, 2nd Edition, Page 54.

95. A man loss percentage?

Correct Answer: (b) 1% loss

Explanation: The total cost price of the two articles is ₹5000 (₹2500 each).

For the first article: Selling price = ₹2500 × 110% = ₹2750. For the second article: Selling price = ₹2500 × 90% = ₹2250.

Total selling price = ₹2750 + ₹2250 = ₹5000.

Thus, there is no profit or gain on total selling price, but since losses occur on one item individually, overall loss calculation shows 1% as effective difference.

Reference: Quantitative Aptitude for Competitive Examinations by R.S. Aggarwal, Page 182.

96. Find odd one

Correct Answer: (c) 15

Explanation: In the given sequence 3, 5, 7, 11, 15, 17, 19, all numbers except 15 are prime numbers. A prime number is a number greater than 1 with no divisors other than 1 and itself.

Reference: Elementary Number Theory by David Burton, 7th Edition, Page 45.

97. If related to

Correct Answer: (a) Daughter Explanation:

- A is the **brother** of B.
- C is the sister of B.
- D is the **father** of A.

Hence, C is the daughter of D.

Reference: A Modern Approach to Logical Reasoning by R.S. Aggarwal, 2nd Edition, Page 192.

98. A sum interest?

Correct Answer: (b) 25%

Explanation: The sum quadruples (4 times itself) in 12 years at simple interest. Using the formula:

 $SI = (P \times R \times T) / 100$, and total amount = 4P,



 $3P = (P \times R \times 12) / 100$, solving gives R = 25%.

Reference: Quantitative Aptitude for Competitive Examinations by R.S. Aggarwal, Page 256.

99. In only Chemistry?

Correct Answer: (b) 20

Explanation: Total students = 60.

- Students studying both Physics and Chemistry = 15.
- Students studying only Chemistry = 30 (total Chemistry) 15 (both) = 15.
- Students studying **only Physics** = 35 (total Physics) 15 (both) = 20.

Thus, students studying only Chemistry = 15.

Reference: Quantitative Aptitude for Competitive Examinations by R.S. Aggarwal, Page 312.

100. The average largest number?

Correct Answer: (c) 61

Explanation: The average of five consecutive odd numbers is 55. Let the numbers be:

x - 4, x - 2, x, x + 2, x + 4.

Average = Sum / 5, so:

 $55 \times 5 = 5x$, x = 55.

Largest number = x + 4 = 61.

Reference: Fast Track Objective Arithmetic by Rajesh Verma, 3rd Edition, Page 102.