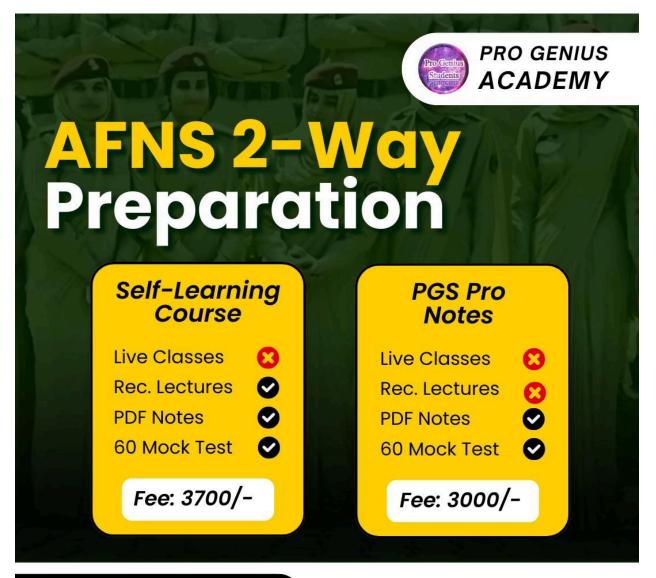
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#### **AFNS MCQs (Q51 - Q100)**

Q51. The current gain  $(\beta)$  of a transistor is the ratio of:

A) IE / IB

B) IB / IC

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- C) IC / IB 🔽
- D) IE / IC

#### **Book Reference:**

Book: FSc Physics Part-II — Chapter 14: Electronics — Topic: Transistor Current Gain

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#### Q52. The efficiency $(\eta)$ of a machine is given by the formula:

- A)  $\eta$  = Output / Input × 100  $\checkmark$
- B)  $\eta = Input / Output \times 100$
- C)  $\eta = Input / Power Loss \times 100$
- D)  $\eta$  = Force / Work Done × 100

#### **Book Reference:**

Book: FSc Physics Part-I — Chapter 5: Work and Energy — Topic: Efficiency of Machines

# Q53. In Young's Double-Slit Experiment, if slit separation is halved and screen distance is doubled, the fringe width becomes:

- A) Half of original
- B) Same as original
- C) Double of original
- D) Four times original 🔽

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#### **Book Reference:**

Book: FSc Physics Part-II — Chapter 12: Wave Optics — Topic: Young's Double-Slit Experiment

# Q54. Which of the following best describes an exothermic reaction?



- A) Absorbs heat from surroundings
- B) Releases heat to surroundings 🔽
  - C) Has positive enthalpy change

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D) Always occurs spontaneously

#### **Book Reference:**

Book: FSc Chemistry Part-I — Chapter 6: Thermochemistry — Topic: Exothermic and Endothermic Reactions

#### Q55. Enthalpy means:

- A) Heat absorbed at constant pressure 🔽
- B) Heat absorbed at constant volume
- C) Random motion of particles
- D) Work done by system

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#### **Book Reference:**

Book: FSc Chemistry Part-I — Chapter 6: Thermochemistry — Topic: Enthalpy

# Q56. A molecule with planar trigonal shape shows which type of hybridization?

- A) sp
- B) sp<sup>2</sup>
- C) sp<sup>3</sup>
- D) dsp<sup>2</sup>

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#### **Book Reference:**

Book: FSc Chemistry Part-I — Chapter 4: Chemical Bonding — Topic: Hybridization

#### Q57. The ion V3+V^{3+}V3+ is:

- A) Colored 🔽
- B) Colorless
- C) Transparent
- D) None

#### **Book Reference:**

Book: FSc Chemistry Part-II — Chapter 5: Transition Elements — Topic: Color of Transition Metal Ions

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#### Q58. He died ---- cancer.

- A) by
- B) of 🔽
- C) with
- D) from

#### **Book Reference:**

Book: English Grammar & Composition — Topic: Prepositions
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#### Q59. Prostaglandins are released by:

- A) Liver
- B) Fatty acids V
- C) Kidney
- D) Pituitary gland

#### **Book Reference:**

Book: FSc Biology Part-II — Chapter 27: Reproduction — Topic: Hormonal Regulation

#### Q60. The functional unit of kidney is:

- A) Neuron
- B) Nephron V
- C) Glomerulus
- D) Tubule

#### **Book Reference:**

Book: FSc Biology Part-II — Chapter 16: Excretion — Topic: Structure of Nephron

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#### Q61. Which protein complex contains 3 polypeptide chains?

- A) Hemoglobin
- B) Troponin 🔽
- C) Myosin
- D) Actin

#### **Book Reference:**

Book: FSc Biology Part-II — Chapter 16: Support & Movement — Topic: Muscle Proteins

#### Q62. In XeF2XeF\_2XeF2, the number of lone pairs on Xe atom is:

- A) 2
- B) 3 🔽
- C) 4
- D) 5

#### **Book Reference:**

Book: FSc Chemistry Part-II — Chapter 5: Group VA Elements — Topic: Xenon Compounds

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#### Q63. Which molecule has the strongest bond?

- A) Ethane
- B) Ethene

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- C) Ethyne 🔽
- D) Benzene

#### **Book Reference:**

Book: FSc Chemistry Part-II — Chapter 12: Aliphatic Hydrocarbons — Topic: Bond Strengths

#### Q64. The chemical present in banana responsible for ripening is:

- A) Ethylene (Ethene) 🔽
- B) Methane
- C) Ethanol
- D) Acetylene

#### **Book Reference:**

Book: FSc Biology Part-I — Chapter 12: Hormonal Coordination in Plants —

Topic: Ethene

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#### Q65. In hydrogen atom at ground state, the bond is:

- A) Positive
- B) Negative
- C) Both positive & negative V
- D) None

#### **Book Reference:**

Book: FSc Physics Part-I — Chapter 17: Atomic Spectra — Topic: Hydrogen Atom

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# Q66. Which state of matter has the strongest internal energy at 0°C?

- A) Gas 🔽
- B) Liquid
- C) Solid
- D) Plasma

#### **Book Reference:**

Book: FSc Physics Part-I — Chapter 10: Thermal Properties of Matter —

**Topic: Internal Energy** 

#### Q67. Water shows its maximum density at:

- A) 0°C
- B) 4°C 🔽
- C) 100°C
- D) 273 K

#### **Book Reference:**

Book: FSc Physics Part-I — Chapter 10: Thermal Properties of Matter —

Topic: Anomalous Expansion of Water

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#### Q68. Michelson interferometer is used to measure:

- A) Frequency of light
- B) Wavelength of light V
- C) Energy of light
- D) Velocity of light

#### **Book Reference:**

Book: FSc Physics Part-II — Chapter 12: Wave Optics — Topic: Interference

# Q69. Which vitamin functions as a coenzyme in amino acid metabolism?

- A) Vitamin B1 (Thiamine)
- B) Vitamin B6 (Pyridoxine) 🔽
- C) Vitamin C (Ascorbic acid)
- D) Vitamin D

#### **Book Reference:**

Book: FSc Biology Part-I — Chapter 2: Biological Molecules — Topic: Vitamins

### Q70. The correct order of reactivity towards electrophilic substitution is:

- A) Benzene > Toluene > Nitrobenzene
- B) Nitrobenzene > Benzene > Toluene
- C) Toluene > Benzene > Nitrobenzene 🔽

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D) Benzene > Nitrobenzene > Toluene

#### **Book Reference:**

Book: FSc Chemistry Part-II — Chapter 14: Aromatic Hydrocarbons —

Topic: Electrophilic Substitution

# Q71. Which law explains the concept of mass defect in nuclear reactions?

- A) Dalton's Law
- B) Avogadro's Law
- C) Einstein's Mass-Energy Equivalence (E=mc²) 🔽
- D) Boyle's Law

#### **Book Reference:**

Book: FSc Physics Part-II — Chapter 21: Nuclear Physics — Topic: Mass Defect

#### Q72. The pH of a 0.001 M HCl solution is:

- A) 1
- B) 2
- C) 3 🔽
- D) 4

#### **Book Reference:**

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Book: FSc Chemistry Part-I — Chapter 9: Acids, Bases & Salts — Topic: pH Scale

#### Q73. The hybridization of the central atom in XeF4XeF\_4XeF4 is:

- A) sp<sup>3</sup>
- B) sp³d
- C) sp<sup>3</sup>d<sup>2</sup>

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D) sp³d³

#### **Book Reference:**

Book: FSc Chemistry Part-II — Chapter 5: Group VA Elements — Topic: Hybridization

# Q74. In Kingdom Animalia, which phylum has nephridia for excretion?

- A) Mollusca
- B) Arthropoda
- C) Annelida 🔽
- D) Echinodermata

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#### **Book Reference:**

Book: FSc Biology Part-I — Chapter 10: Kingdom Animalia — Topic: Excretory Organs

# Q75. A block of mass 2 kg is moving with velocity 5 m/s. Its kinetic energy is:

- A) 10 J
- B) 20 J
- C) 25 J 🔽
- D) 50 J

#### **Book Reference:**

Book: FSc Physics Part-I — Chapter 5: Work and Energy — Topic: Kinetic Energy

#### Q76. The largest artery in the human body is:

- A) Pulmonary artery
- B) Coronary artery
- C) Carotid artery
- D) Aorta 🔽

#### **Book Reference:**

Book: FSc Biology Part-II — Chapter 18: Circulatory System — Topic: Human Heart & Vessels

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#### Q77. The hormone that controls blood sugar level is:

- A) Adrenaline
- B) Glucagon
- C) Insulin 🔽
- D) Thyroxine

#### **Book Reference:**

Book: FSc Biology Part-II — Chapter 27: Endocrine System — Topic: Pancreatic Hormones

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# Q78. Which gases are used in the Haber process for ammonia synthesis?

- A) Oxygen + Nitrogen
- B) Nitrogen + Hydrogen 🔽
- C) Carbon dioxide + Hydrogen
- D) Oxygen + Hydrogen

#### **Book Reference:**

Book: FSc Chemistry Part-I — Chapter 6: Chemical Equilibrium — Topic: Haber Process

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#### Q79. The chemical formula of bleaching powder is:

- A) CaCl<sub>2</sub>
- B) Ca(OH)<sub>2</sub>
- C) CaOCl<sub>2</sub> V
- D) CaCO<sub>3</sub>

#### **Book Reference:**

Book: FSc Chemistry Part-II — Chapter 5: Group IIA Elements — Topic: Bleaching Powder

#### Q80. The energy produced in stars is mainly due to:

- A) Nuclear fission
- B) Nuclear fusion V
- C) Radioactive decay
- D) Chemical reactions

#### **Book Reference:**

Book: FSc Physics Part-II — Chapter 21: Nuclear Physics — Topic: Fusion Reactions

#### Q81. The speed of light in vacuum is:

- A) 3×1063 \times 10^63×106 m/s
- B) 3×1073 \times 10^73×107 m/s
- C) 3×1083 \times 10^83×108 m/s V

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D) 3×1093 \times 10^93×109 m/s

#### **Book Reference:**

Book: FSc Physics Part-II — Chapter 12: Wave Optics — Topic: Speed of Light

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#### Q82. The antonym of Genuine is:

- A) Original
- B) Real
- C) Fake 🔽
- D) True

#### **Book Reference:**

Book: English Grammar & Vocabulary — Topic: Antonyms

#### Q83. The synonym of Precise is:

- A) Exact 🔽
- B) Rough
- C) False
- D) Wrong

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#### **Book Reference:**

Book: English Grammar & Vocabulary — Topic: Synonyms

### Q84. Choose the correct passive voice of the sentence Ali wrote a letter:

- A) A letter was written by Ali 🔽
- B) A letter writes Ali
- C) Ali was written a letter
- D) A letter had been written Ali

#### **Book Reference:**

Book: English Grammar & Composition — Topic: Active & Passive Voice

#### Q85. The enzyme responsible for the breakdown of fats is:

- A) Amylase
- B) Lipase 🔽
- C) Protease
- D) Maltase

#### **Book Reference:**

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Book: FSc Biology Part-I — Chapter 2: Biological Molecules — Topic:

**Enzymes** 

#### Q86. The tissue responsible for water transport in plants is:

- A) Phloem
- B) Xylem 🔽
- C) Cambium
- D) Cortex

#### **Book Reference:**

Book: FSc Biology Part-I — Chapter 8: Transport — Topic: Xylem

#### Q87. The law of conservation of mass was given by:

- A) Dalton
- B) Avogadro
- C) Lavoisier V
- D) Rutherford

#### **Book Reference:**

Book: FSc Chemistry Part-I — Chapter 1: Basic Concepts — Topic: Laws of Chemical Combination

#### Q88. The orbital which has a spherical shape is:

A) s-orbital 🔽

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- B) p-orbital
- C) d-orbital
- D) f-orbital

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#### **Book Reference:**

Book: FSc Chemistry Part-I — Chapter 3: Atomic Structure — Topic: Shapes of Orbitals

#### Q89. Which gas contributes the most to the greenhouse effect?

- A) Methane (CH<sub>4</sub>)
- B) Carbon dioxide (CO<sub>2</sub>)
- C) Nitrous oxide (N<sub>2</sub>O)
- D) Ozone  $(O_3)$

#### **Book Reference:**

Book: FSc Biology Part-II — Chapter 25: Ecosystem — Topic: Greenhouse Effect

#### Q90. The area under a velocity-time graph represents:

- A) Speed
- B) Acceleration
- C) Displacement <a></a>

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D) Force

#### **Book Reference:**

Book: FSc Physics Part-I — Chapter 2: Motion — Topic: Graphical Analysis

#### Q91. The synonym of Cautious is:

- A) Careful 🔽
- B) Careless
- C) Rough
- D) Aggressive

#### **Book Reference:**

Book: English Grammar & Vocabulary — Topic: Synonyms

#### Q92. Which amine is the most basic?

- A) Ammonia 🔽
- B) Aniline
- C) Methylamine
- D) Ethylamine

#### **Book Reference:**

Book: FSc Chemistry Part-II — Chapter 15: Amines — Topic: Basicity

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#### Q93. Which process occurs in mitochondria?

- A) Anaerobic respiration
- B) Aerobic respiration 🔽
- C) Photosynthesis
- D) Fermentation

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#### **Book Reference:**

Book: FSc Biology Part-I — Chapter 5: Cell — Topic: Mitochondria

#### Q94. The wavelength range of visible light is:

- A) 200-400 nm
- B) 400-700 nm 🔽
- C) 700-900 nm
- D) 1000-1200 nm

#### **Book Reference:**

Book: FSc Physics Part-II — Chapter 12: Wave Optics — Topic: Spectrum

#### Q95. Which catalyst is used in the Haber process?

- A) Nickel
- B) Iron with promoters 🔽
- C) Platinum
- D) Copper

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#### **Book Reference:**

Book: FSc Chemistry Part-I — Chapter 6: Chemical Equilibrium — Topic: Haber Process

#### Q96. The smallest bone in the human body is:

- A) Malleus
- B) Incus
- C) Stapes 🔽
- D) Femur

#### **Book Reference:**

Book: FSc Biology Part-II — Chapter 16: Support & Movement — Topic: Skeleton

# Q97. The process by which plants lose water in the form of vapor is called:

- A) Respiration
- B) Photosynthesis
- C) Transpiration <a>V</a>
- D) Translocation

#### **Book Reference:**

Book: FSc Biology Part-I — Chapter 8: Transport — Topic: Transpiration

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#### Q98. The SI unit of power is:

- A) Joule
- B) Watt V
- C) Newton
- D) Pascal

#### **Book Reference:**

Book: FSc Physics Part-I — Chapter 5: Work and Energy — Topic: Power

#### Q99. The chemical formula of common salt is:

- A) KCI
- B) NaCl 🔽
- C) CaCl<sub>2</sub>
- D) Na<sub>2</sub>CO<sub>3</sub>

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#### **Book Reference:**

Book: FSc Chemistry Part-I — Chapter 1: Basic Concepts — Topic: Common Compounds

#### Q100. Deficiency of iodine in the human body causes:

- A) Diabetes
- B) Goiter 🔽
- C) Rickets

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D) Scurvy

#### **Book Reference:**

Book: FSc Biology Part-II — Chapter 27: Endocrine System — Topic: Thyroid Disorders

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