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AFNS Past Paper 2025 PDF 08

AFNS Sep 2025 Test MCQs (Very Important)

Academic MCQs

? How many types of gametes are produced from genotype AaBb?

- a) 2
- b) 3
- c) 4
- d) 8

✓ Answer: c) 4

 Explanation: Formula = 2^n (n = heterozygous pairs). Here $n = 2 \rightarrow 4$ gametes.

? Functional group in chlorophyll?

- a) Porphyrin ring with Fe^{2+}
- b) Porphyrin ring with Mg^{2+}
- c) Pyrrole ring with Cu^{2+}
- d) Benzene ring

✓ Answer: b) Porphyrin ring with Mg^{2+}

? Process occurring in mitochondria?

- a) Photosynthesis
- b) Fermentation
- c) Aerobic respiration
- d) Glycolysis

✓ Answer: c) Aerobic respiration

? Which alkane gives aldehyde on oxidation?

- a) Methane
- b) Ethane
- c) Propane
- d) Butane

✓ Answer: a) Methane

? Esterification is reaction between?

- a) Alcohol + Ketone
- b) Alcohol + Carboxylic acid
- c) Alcohol + Aldehyde
- d) Carboxylic acid + Ether

✓ Answer: b) Alcohol + Carboxylic acid

? Most basic amine is?

- a) Ammonia
- b) Primary amine
- c) Secondary amine
- d) Tertiary amine

✓ Answer: a) Ammonia

? Oxidation of secondary alcohol produces?

- a) Aldehyde
- b) Ketone
- c) Carboxylic acid
- d) Ether

✓ Answer: b) Ketone

? If 50% reactants are converted at equilibrium, K_c equals?

- a) 0.5
- b) 1
- c) 2
- d) 10

✓ Answer: b) 1

? SI unit of capacitance?

- a) Henry
- b) Farad
- c) Coulomb
- d) Ohm

✓ Answer: b) Farad

? kWh is a unit of?

- a) Power
- b) Energy
- c) Voltage
- d) Current

✓ Answer: b) Energy

? Absolute zero temperature equals?

- a) -100°C
- b) -200°C
- c) -273°C
- d) -300°C

✓ Answer: c) -273°C

? In SHM, force and displacement are?

- a) Same direction
- b) Perpendicular
- c) Opposite direction
- d) Random

✓ Answer: c) Opposite direction

? Brewster's angle is related to?

- a) Reflection
- b) Diffraction
- c) Polarization
- d) Refraction

✓ Answer: c) Polarization

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? Simile is?

- a) Comparison using "like" or "as"
- b) Direct comparison
- c) Opposite meaning
- d) Word repetition

✓ Answer: a) Comparison using "like" or "as"

? Metaphor is?

- a) Comparison using "like" or "as"
- b) Direct comparison without "like" or "as"
- c) Symbolic exaggeration
- d) Word play

✓ Answer: b) Direct comparison without "like" or "as"

🧠 **Verbal & Non-Verbal MCQs**

? $\frac{1}{3}$ of $\frac{1}{10}$ of 90 = ?

- a) 1
- b) 2
- c) 3
- d) 9

✓ Answer: c) 3

? 90% of 90 = ?

- a) 70
- b) 72
- c) 81
- d) 90

✓ Answer: c) 81

? Series: B2, G5, L8, Q11, ?

- a) T12
- b) V14
- c) X15
- d) Y16

✓ Answer: b) V14

□ Explanation: Alphabet +5 each step, number +3 each step.

? 5 students → 5 papers in 5 minutes. Time for 1 student = ?

- a) 1 min
- b) 2 min
- c) 5 min
- d) 25 min

✓ Answer: c) 5 min

? Salman = 4 yrs. Sister = 4× older. When Salman = 11, sister's age = ?

- a) 28
- b) 32
- c) 44
- d) 48

✓ Answer: c) 44

□ Academic

? Which amino acid is present at the 6th position of hemoglobin β-chain?

- a) Lysine
- b) Histidine
- c) Glutamate
- d) Valine

✓ Answer: Glutamate (normal HbA)

□ Explanation: In normal hemoglobin (HbA), the 6th amino acid is glutamic acid. In sickle cell anemia, it is mutated to valine.

? Conjugate acid–base pairs differ by?

- a) One proton (H^+)

- b) One neutron
- c) One electron
- d) Mass number

✓ Answer: One proton (H^+)

📖 Explanation: Example: HCl (acid) $\rightarrow Cl^-$ (base). They differ only by 1 H^+ ion.

? If A was born in 2000, B in 2007, and C is older than B, then which is correct?

- A is older than B
- C is older than B
- B is older than A
- All same age

✓ Answer: A is older than B; C is also older than B but may be younger than A.

📖 Explanation: $A = 2000 \rightarrow$ oldest, $B = 2007 \rightarrow$ youngest, C older than B but exact position vs A not known.

🧠 Verbal Intelligence

? 90% of 90 = ?

- a) 72
- b) 81
- c) 90
- d) 70

Answer: 81

📖 $90 \times 0.9 = 81$

? If $X = 3$ yrs, Sister = $3 \times$ older. When $X = 8$, sister = ?

- a) 11
- b) 12
- c) 14
- d) 15

Answer: 14

📖 Age gap = 6 years. So $8 + 6 = 14$.

? Series: A4, C6, E8 $\rightarrow$?

- a) F9
- b) G10
- c) H11
- d) I12

Answer: G10

📖 Letters skip 2 $\rightarrow$ A, C, E, G. Numbers +2 $\rightarrow$ 4, 6, 8, 10.

? Series: 66, 63, 57, 47 $\rightarrow$?

- a) 27
- b) 21
- c) 32
- d) 15

Answer: 21

☐ Differences: $-3, -6, -10, -15 \rightarrow \text{next} = 21$.

🔗 Odd one out: Ape, Baboon, Chimpanzee, Panda

- a) Ape
- b) Baboon
- c) Chimpanzee
- d) Panda

Answer: Panda

☐ Panda is not a primate, the rest are.

🔗 Word Management alphabetically $\rightarrow$ 3rd last letter?

- a) M
- b) N
- c) G
- d) T

Answer: N

☐ Order: A, A, E, G, M, M, N, N, T $\rightarrow$ 3rd last = N.

📖 Academic

⚡ Physics

🔗 Current Gain (β) = ?

- a) V/I
- b) I_c/I_b
- c) I_e/I_c
- d) V/R

Answer: I_c/I_b

☐ β = Collector Current / Base Current.

🔗 Efficiency = ?

- a) Work $\times$ Force
- b) $(\text{Input} / \text{Output}) \times 100$
- c) $(\text{Useful Output} / \text{Input}) \times 100$
- d) Energy $\times$ Mass

Answer: $(\text{Useful Output} / \text{Input}) \times 100$

☐ Efficiency compares useful energy to input energy.

🔗 YDSE: slit distance halved, screen distance doubled $\rightarrow$ Fringe width?

- a) Same
- b) Half

c) Double

d) 4 times

Answer: 4 times

☐ $\beta = \lambda D/d$. If $D \rightarrow 2D$ and $d \rightarrow d/2$, new $\beta = 4\beta$.

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Chemistry

? Decarboxylation uses?

a) NaOH only

b) CaO only

c) Soda Lime

d) Catalyst

Answer: Soda Lime

☐ Soda lime (NaOH + CaO) removes $-\text{COOH}$ group as CO_2 .

? Most abundant polymer on Earth?

a) Starch

b) Protein

c) Cellulose

d) Glycogen

Answer: Cellulose

☐ Main structural polysaccharide in plant cell walls.

Biology

? If embryo is implanted, which hormone secreted?

a) FSH

b) Estrogen

c) hCG

d) LH

Answer: hCG

☐ hCG maintains corpus luteum, supports pregnancy.

Academic Portion

? Gas essential for respiration is?

a) Nitrogen

b) Oxygen

c) Carbon dioxide

d) Hydrogen

Answer: Oxygen

☐ Oxygen is required for aerobic respiration.

? Which hormone controls growth?

- a) Insulin
- b) Thyroxine
- c) Growth Hormone
- d) Adrenaline

Answer: Growth Hormone

☐ GH secreted by pituitary gland, regulates growth.

? Photosynthesis equation is?

- a) $\text{CO}_2 + \text{O}_2 \rightarrow \text{Glucose}$
- b) $6\text{CO}_2 + 6\text{H}_2\text{O} \rightarrow \text{C}_6\text{H}_{12}\text{O}_6 + 6\text{O}_2$
- c) $\text{Glucose} \rightarrow \text{Energy} + \text{CO}_2$
- d) None

Answer: $6\text{CO}_2 + 6\text{H}_2\text{O} \rightarrow \text{C}_6\text{H}_{12}\text{O}_6 + 6\text{O}_2$

☐ Balanced equation for photosynthesis in plants.

? SI unit of current?

- a) Volt
- b) Ampere
- c) Coulomb
- d) Ohm

Answer: Ampere

☐ Defined as 1 coulomb of charge per second.

? Entry/Exit in cell is controlled by?

- a) Nucleus
- b) Cell wall
- c) Cell membrane
- d) Ribosome

Answer: Cell membrane

☐ Plasma membrane is selectively permeable.

? Universal donor blood group?

- a) AB+
- b) O+
- c) O-
- d) AB-

Answer: O-

☐ O- has no A/B antigens or Rh factor.

? SI unit of work?

- a) Watt
- b) Joule
- c) Newton
- d) Erg

Answer: Joule

☐ Work = Force × Distance.

🔍 Red Planet is?

- a) Venus
- b) Jupiter
- c) Mars
- d) Mercury

Answer: Mars

☐ Appears red due to iron oxide on surface.

🔍 First artificial satellite launched?

- a) Apollo 11
- b) Sputnik 1
- c) Voyager 1
- d) Luna 1

Answer: Sputnik 1

☐ Launched by USSR in 1957.

🔍 Vitamin for good vision?

- a) Vitamin C
- b) Vitamin A
- c) Vitamin K
- d) Vitamin D

Answer: Vitamin A

☐ Prevents night blindness.

🔍 DNA base pairing rule?

- a) A with C
- b) A with T
- c) G with A
- d) T with G

Answer: A with T

☐ Chargaff's rule: A-T, G-C.

🔍 Acid in lemon?

- a) Citric acid
- b) Lactic acid
- c) Tartaric acid
- d) Acetic acid

Answer: Citric acid

☐ Responsible for sour taste in citrus fruits.

🔗 Angle sum of triangle?

- a) 90°
- b) 120°
- c) 180°
- d) 360°

Answer: 180°

☐ Interior angles always add up to 180° .

🔗 Sound cannot travel in?

- a) Air
- b) Water
- c) Metal
- d) Vacuum

Answer: Vacuum

☐ Sound needs medium to travel.

🔗 Father of Biology?

- a) Darwin
- b) Aristotle
- c) Mendel
- d) Newton

Answer: Aristotle

☐ He classified animals and plants, hence called father of Biology.

🔗 Verbal & Non-Verbal

🔗 Series: 3, 6, 12, 24 → ?

- a) 36
- b) 48
- c) 54
- d) 60

Answer: 48

☐ Each term $\times 2$

Chemistry MCQs

🔗 Gas molecules escape through a small hole without collisions is called?

- a) Diffusion
- b) Effusion
- c) Osmosis
- d) Dispersion

Answer: Effusion

☐ Effusion = escape of gas through a tiny hole without collisions.

? Which compound is most stable?

- a) Cyclobutene
- b) Cyclopentene
- c) Benzene
- d) Ethene

Answer: Benzene

☐ Benzene is resonance-stabilized, highly stable aromatic compound.

? Grignard reagent + $\text{CO}_2 \rightarrow ?$

- a) Alcohol
- b) Carboxylic acid
- c) Ketone
- d) Ester

Answer: Carboxylic acid

☐ $\text{RMgX} + \text{CO}_2 \rightarrow \text{R-COOH}$ after hydrolysis.

? Test used to detect ketones?

- a) Tollen's reagent
- b) Brady's reagent (2,4-DNP)
- c) Fehling's solution
- d) Benedict's test

Answer: Brady's reagent (2,4-DNP)

☐ Forms orange ppt with aldehydes & ketones.

? Atomic bomb works on which principle?

- a) Nuclear Fusion
- b) Nuclear Fission
- c) Chain reaction
- d) Ionization

Answer: Nuclear Fission

☐ Atomic bomb uses U-235/Pu-239 fission chain reactions.

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☒ English / Vocabulary

? Synonym of Excuse is?

- a) Justify
- b) Ignore
- c) Deny
- d) Refuse

Answer: Justify / Pardon

☐ Excuse means forgive or give a reason.

? Synonym of Passive is?

- a) Active
- b) Energetic
- c) Submissive
- d) Dynamic

Answer: Submissive / Inactive

☐ Passive = inactive or yielding.

? Words beginning with same sound/letter is called?

- a) Simile
- b) Alliteration
- c) Adjective
- d) Metaphor

Answer: Alliteration

☐ Example: "She sells seashells by the seashore."

Physics

? Range of visible light is?

- a) 100–400 nm
- b) 400–700 nm
- c) 700–1200 nm
- d) 1–10 μm

Answer: 400–700 nm

☐ Human eye detects this wavelength range.

? PV has same unit as?

- a) Power
- b) Energy (Work)
- c) Pressure
- d) Force

Answer: Work (Joule)

☐ $PV = nRT$ has unit Joule (work/energy).

? Which is solid among given options?

- a) Oxygen
- b) Nitrogen
- c) Diamond
- d) Helium

Answer: Diamond

☐ Diamond & Copper are solids.

? A substance that breaks right after elastic limit is called?

- a) Ductile
- b) Malleable
- c) Brittle
- d) Elastic

Answer: Brittle

☐ Brittle materials like glass break without significant deformation.

🔗 Biology

? Osteoclasts are?

- a) Bone-forming cells
- b) Bone-resorbing cells
- c) Cartilage cells
- d) Muscle cells

Answer: Bone-resorbing cells

☐ Osteoclasts break down bone tissue.

? Removal/treatment of muscle disorders is done by?

- a) Surgery
- b) Physiotherapy
- c) Gene therapy
- d) All of these

Answer: All of these (context-dependent)

☐ Treatment depends on disorder: therapy, surgery, or genetic treatment.

📖 Academic MCQs

? Which vitamin helps in blood clotting?

- a) Vitamin A
- b) Vitamin C
- c) Vitamin D
- d) Vitamin K

Answer: Vitamin K

☐ Vitamin K activates clotting factors that stop bleeding.

? Smallest bone in the human body is?

- a) Femur
- b) Stapes
- c) Radius
- d) Ulna

Answer: Stapes

☐ Found in the middle ear, it measures about 3 mm.

? Water loss in plants occurs by?

- a) Photosynthesis
- b) Transpiration
- c) Respiration
- d) Excretion

Answer: Transpiration

☐ Water is lost through stomata in the form of vapor.

? SI unit of power is?

- a) Joule
- b) Watt
- c) Newton
- d) Pascal

Answer: Watt

☐ Power = Work done per second, unit is Joule/second = Watt.

? Chemical formula of common salt?

- a) NaOH
- b) NaCl
- c) KCl
- d) Na_2CO_3

Answer: NaCl

☐ Sodium chloride is table salt.

? Deficiency of iodine causes?

- a) Rickets
- b) Goiter
- c) Scurvy
- d) Night blindness

Answer: Goiter

☐ Iodine is required for thyroid hormones, deficiency causes neck swelling.

? Charge on electron is?

- a) Positive
- b) Neutral
- c) Negative

d) Zero

Answer: Negative

☐ Electron has -1.6×10^{-19} C charge.

🔗 Which gas is used in fire extinguishers?

a) O₂

b) CO₂

c) N₂

d) H₂

Answer: CO₂

☐ CO₂ cuts oxygen supply & cools down fire.

🔗 Enzyme that digests protein in stomach?

a) Amylase

b) Pepsin

c) Lipase

d) Maltase

Answer: Pepsin

☐ Pepsin breaks proteins into peptides in acidic medium.

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🔗 DNA stands for?

a) Dioxyribonucleic acid

b) Deoxyribonucleic acid

c) Deoxyribose nucleotide acid

d) Double ribonucleic acid

Answer: Deoxyribonucleic acid

☐ It carries genetic instructions in organisms.

🧠 Verbal & Non-Verbal Intelligence

🔗 One-fourth of 200 is?

a) 20

b) 25

c) 50

d) 100

Answer: 50

☐ $200 \div 4 = 50$.

🔗 Series: 5, 10, 20, 40, ?

- a) 50
- b) 60
- c) 70
- d) 80

Answer: 80

📌 Each term $\times 2$.

🔗 A father is 30 years older than his son. If son is 15, father is?

- a) 35
- b) 40
- c) 45
- d) 50

Answer: 45

📌 $15 + 30 = 45$.

🔗 If 6 workers finish work in 12 days, then 3 workers will take?

- a) 6 days
- b) 12 days
- c) 18 days
- d) 24 days

Answer: 24 days

🔗 Odd one out: Circle, Square, Triangle, Apple

- a) Circle
- b) Square
- c) Triangle
- d) Apple

Answer: Apple

📌 Apple is not a geometric shape.

🔗 Biology

🔗 Q1. Which enzyme unzips DNA during replication?

- a) Ligase
- b) Helicase
- c) Polymerase
- d) Primase

✅ Answer: b) Helicase

🔗 Helicase breaks hydrogen bonds and separates DNA strands.

🔗 Q2. Which organelle is known as the powerhouse of the cell?

- a) Ribosome
- b) Golgi apparatus

c) Mitochondria

d) Nucleus

✓ Answer: c) Mitochondria

◆ Mitochondria produce ATP by aerobic respiration.

✎ Q3. Water vascular system is a feature of which phylum?

a) Mollusca

b) Arthropoda

c) Echinodermata

d) Annelida

✓ Answer: c) Echinodermata

◆ Found in starfish and sea urchins → helps in movement and transport.

✎ Q4. Which plant hormone promotes cell elongation?

a) Auxin

b) Gibberellin

c) Cytokinin

d) Absciscic acid

✓ Answer: a) Auxin

◆ Auxins cause elongation of shoots and bending toward light.

✎ Chemistry

✎ Q5. Aldol condensation occurs between:

a) Aldehydes without α -H

b) Aldehydes/ketones with α -H

c) Aromatic hydrocarbons

d) Alcohols

✓ Answer: b) Aldehydes/ketones with α -H

◆ Requires carbonyl compounds with α -hydrogen.

✎ Q6. Which alcohol reacts immediately with Lucas reagent?

a) Primary alcohol

b) Secondary alcohol

c) Tertiary alcohol

d) Phenol

✓ Answer: c) Tertiary alcohol

◆ Tertiary alcohol forms turbidity in seconds.

✎ Q7. Which compound shows maximum hydration in water?

a) Formaldehyde

b) Acetone

c) Benzaldehyde

d) Propanal

✓ Answer: a) Formaldehyde

◆ Smallest carbonyl, highly hydrated in aqueous medium.

✎ Q8. Which reagent converts primary alcohol → aldehyde?

a) KMnO_4

b) PCC

c) H_2SO_4

d) NaOH

✓ Answer: b) PCC

◆ Pyridinium chlorochromate is mild, stops at aldehyde stage.

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✎ Q9. Hybridization of each carbon atom in ethene (C_2H_4) is:

a) sp

b) sp^2

c) sp^3

d) dsp^2

✓ Answer: b) sp^2

◆ Each carbon makes 3 σ bonds + 1 π bond.

💡 Physics

✎ Q10. Kinetic energy of a 10 kg body moving at 5 m/s?

a) 100 J

b) 125 J

c) 150 J

d) 200 J

✓ Answer: b) 125 J

◆ $\text{KE} = \frac{1}{2} mv^2 = \frac{1}{2} \times 10 \times 25 = 125 \text{ J}$.

✎ Q11. A coil has 500 turns, current = 2 A, area = 1 m^2 . Magnetic moment = ?

a) 500 Am^2

b) 1000 Am^2

c) 250 Am^2

d) 2000 Am^2

✓ Answer: b) 1000 Am^2

◆ Formula: $M = N \times I \times A = 500 \times 2 \times 1$.

 Q12. If frequency of a photon doubles, its energy will:

- a) Become half
- b) Stay same
- c) Double
- d) Reduce to zero

☒ Answer: c) Double

 $E = hf \rightarrow$ directly proportional to frequency.

 Q13. Time period of a simple pendulum of length 1 m?

- a) 1 s
- b) 2 s
- c) 3 s
- d) 4 s

☒ Answer: b) 2 s

 $T = 2\pi \sqrt{L/g} = 2\pi \sqrt{1/9.8} \approx 2 \text{ s}.$

 Q14. In Young's double slit experiment, fringe width increases if:

- a) Wavelength decreases
- b) Distance between slits increases
- c) Wavelength increases
- d) Screen distance decreases

☒ Answer: c) Wavelength increases

 $\beta = \lambda D/d \rightarrow$ directly proportional to λ .

 English

 Q15. Which is a compound sentence?

- a) She runs fast.
- b) She wanted to go, but she stayed home.
- c) She is running.
- d) She plays.

☒ Answer: b) She wanted to go, but she stayed home.

 Two independent clauses joined by "but."

 Q16. Synonym of "Diminish"?

- a) Increase
- b) Reduce
- c) Expand
- d) Multiply

☒ Answer: b) Reduce

 Diminish = to lessen or reduce.

 Q17. Antonym of "Hostile"?

- a) Aggressive
- b) Friendly

- c) Unkind
- d) Opponent

✓ Answer: b) Friendly

◆ Hostile = unfriendly; antonym = friendly.

✎ Q18. Fill in the blank: He is interested __ science.

- a) on
- b) at
- c) in
- d) with

✓ Answer: c) in

◆ Correct preposition is "interested in."

▣ Academic Portion

✎ Q1. Smallest bone in the human body is:

- a) Femur
- b) Tibia
- c) Stapes
- d) Ulna

✓ Answer: c) Stapes

◆ Found in the middle ear; helps transmit sound vibrations.

✎ Q2. Loss of water in plants mainly occurs through:

- a) Respiration
- b) Photosynthesis
- c) Transpiration
- d) Digestion

✓ Answer: c) Transpiration

◆ Evaporation of water from stomata of leaves.

✎ Q3. SI unit of power is:

- a) Joule
- b) Watt
- c) Newton
- d) Ampere

✓ Answer: b) Watt

◆ Power = Work/Time; unit Joule/second = Watt.

✎ Q4. Formula of common salt is:

- a) KCl
- b) NaCl

c) MgCl_2

d) CaCO_3

✓ Answer: b) NaCl

◆ Sodium chloride is everyday table salt.

✎ Q5. Iodine deficiency causes:

a) Anemia

b) Goiter

c) Rickets

d) Night blindness

✓ Answer: b) Goiter

◆ Iodine deficiency enlarges thyroid gland → goiter.

✎ Q6. Charge on electron is:

a) Positive

b) Neutral

c) Negative

d) Variable

✓ Answer: c) Negative

◆ Electron carries -1 elementary charge.

✎ Q7. Gas commonly used in fire extinguishers:

a) Oxygen

b) CO_2

c) Hydrogen

d) Nitrogen

✓ Answer: b) CO_2

◆ Removes oxygen supply and cools flames.

✎ Q8. Enzyme responsible for protein digestion in stomach:

a) Amylase

b) Pepsin

c) Lipase

d) Trypsin

✓ Answer: b) Pepsin

◆ Pepsin breaks proteins into smaller peptides.

✎ Q9. DNA stands for:

a) Deoxyribose nucleic acid

b) Deoxyribonucleic acid

c) Dinucleotide acid

d) Deoxyribogen nucleic acid

✓ Answer: b) Deoxyribonucleic acid

◆ Genetic material that stores hereditary information.

🧠 Intelligence Portion

✎ Q10. One-fourth of 200 is:

- a) 20
- b) 25
- c) 50
- d) 100

✓ Answer: c) 50

◆ $200 \div 4 = 50$.

✎ Q11. Series: 5, 10, 20, 40, ?

- a) 50
- b) 60
- c) 70
- d) 80

✓ Answer: d) 80

◆ Pattern: $\times 2$ each time.

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Regards

✎ Q12. If son is 15 and father is 30 years older, father's age is:

- a) 35
- b) 40
- c) 45
- d) 50

✓ Answer: c) 45

◆ $15 + 30 = 45$.

✎ Q13. 6 workers complete work in 12 days. 3 workers will complete in:

- a) 12 days
- b) 18 days
- c) 24 days
- d) 36 days

✓ Answer: c) 24 days

◆ Half workers = double time.

✎ Q14. Odd one out: Circle, Square, Triangle, Apple

- a) Circle
- b) Square
- c) Triangle
- d) Apple

✓ Answer: d) Apple

◆ First three are shapes, Apple is an object.

✎ Q15. Series: 4, 8, 16, 32, ?

- a) 48
- b) 60
- c) 64
- d) 128

✓ Answer: c) 64

◆ Pattern: $\times 2$ each step

Q16. 35% of 240 is:

- a) 72
- b) 80
- c) 82
- d) 84

✓ Answer: d) 84

◆ $240 \times 0.35 = 84$.

✎ Q17. 5 men finish in 10 days. 10 men finish in:

- a) 2.5 days
- b) 5 days
- c) 7.5 days
- d) 20 days

✓ Answer: b) 5 days

◆ More men = less time (inverse proportion).

✎ Q18. If son is 12 and father is $3\times$ son, father's age is:

- a) 24
- b) 30
- c) 36
- d) 48

✓ Answer: c) 36

◆ $12 \times 3 = 36$

▣ Academic Portion

🔗 Biology

✎ Q4. Darwin's theory is known as:

- a) Inheritance of acquired characters

- b) Germ theory
- c) Natural selection
- d) Endosymbiotic theory

✓ Answer: c) Natural selection

◆ Darwin explained survival of the fittest → evolution.

✎ Q5. Transport of food in plants occurs through:

- a) Xylem
- b) Phloem
- c) Cambium
- d) Root hairs

✓ Answer: b) Phloem

◆ Phloem transports glucose/sucrose made in leaves.

✎ Q6. HIV infection causes:

- a) Tuberculosis
- b) Polio
- c) AIDS
- d) Rabies

✓ Answer: c) AIDS

◆ HIV (Human Immunodeficiency Virus) destroys immune system.

✎ Q7. Xylem tissue mainly transports:

- a) Food
- b) Hormones
- c) Water & minerals
- d) Proteins

✓ Answer: c) Water & minerals

◆ Xylem conducts water upward from roots.

✎ Chemistry

✎ Q8. Which of the following is not a nucleotide?

- a) ATP
- b) NAD
- c) GTP
- d) CTP

✓ Answer: b) NAD

◆ NAD is a coenzyme, not a true nucleotide.

✎ Q9. Aldol condensation occurs between:

- a) Hydrocarbons
- b) Carboxylic acids

c) Aldehydes/ketones with α -hydrogen

d) Alcohols

✓ Answer: c) Aldehydes/ketones with α -hydrogen

◆ α -Hydrogen required for enolate ion formation.

✎ Q10. Oxidation of toluene gives:

a) Methanol

b) Benzoic acid

c) Acetone

d) Formaldehyde

✓ Answer: b) Benzoic acid

◆ Methyl group of toluene oxidizes $\rightarrow$ carboxylic acid.

✎ Q11. Kolbe's synthesis is used to prepare:

a) Urea

b) Salicylic acid

c) Methane

d) Ethanol

✓ Answer: b) Salicylic acid

◆ Reaction of sodium phenoxide + $\text{CO}_2 \rightarrow$ salicylic acid.

✎ Q12. $\text{C}_2\text{H}_5\text{OH} + \text{Conc. H}_2\text{SO}_4 (170^\circ\text{C}) \rightarrow ?$

a) Ethane

b) Ethene

c) Ethyne

d) Ether

✓ Answer: b) Ethene

◆ Dehydration of ethanol produces ethene (alkene).

✎ Q13. Primary alcohol oxidized to aldehyde by:

a) PCC

b) $\text{K}_2\text{Cr}_2\text{O}_7$

c) KMnO_4

d) HNO_3

✓ Answer: a) PCC

◆ Pyridinium chlorochromate selectively converts 1° alcohol $\rightarrow$ aldehyde.

💡 Physics

✎ Q14. In an RL circuit, voltage ____ current.

a) Lags

b) Leads

c) Equal to

d) Zero

✓ Answer: b) Leads

◆ In RL, inductance causes current lag; so voltage leads.

✎ Q15. Phase difference in 3-phase current is:

a) 60°

b) 90°

c) 120°

d) 180°

✓ Answer: c) 120°

◆ Three-phase system $\rightarrow 120^\circ$ separation for balance.

✎ Biology / Medicine

✎ Q16. Louis Pasteur developed vaccine for:

a) Tuberculosis

b) Rabies

c) Anthrax

d) Polio

✓ Answer: b) Rabies

◆ Pasteur's famous success was rabies vaccine.

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