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AFNS Past Paper 2025 PDF 05

AFNS Sep 2025 Test MCQs (Very Important)

 Q. Synonym of "Rude"

- A) Polite
- B) Kind
- C) Impolite
- D) Gentle

☒ Answer: C) Impolite

 SCIENCE (Chemistry, Bio, Physics mix)

 Q. Aldehydes contain which group?

- A) -OH
- B) -CHO
- C) -COOH
- D) -NH₂

☒ Answer: B) -CHO

Q. Phenols are _____.

- A) Alcohols
- B) Aromatic compounds with -OH
- C) Ketones
- D) Aldehydes

☒ Answer: B) Aromatic compounds with -OH

 Q. Fungi are _____.

- A) Plants
- B) Animals
- C) Non-green, heterotrophic organisms
- D) Bacteria

☒ Answer: C) Non-green, heterotrophic organisms

 Q. Which is a hormone?

- A) Insulin
- B) Glucose
- C) Hemoglobin
- D) Calcium

✓ Answer: A) Insulin

🦋 Q20. Which process is part of reproduction?

- A) Respiration
- B) Fertilization
- C) Digestion
- D) Circulation

✓ Answer: B) Fertilization

🦋 Q. Grignard reagent general formula?

- A) R-OH
- B) R-Mg-X
- C) R-COOH
- D) R-NH₂

✓ Answer: B) R-Mg-X

🦋 Q. Alcohol functional group?

- A) -OH
- B) -CHO
- C) -COOH
- D) -C=O

✓ Answer: A) -OH

Q: Boron is classified as?

- A) Metal
- B) Non-metal
- C) Metalloid ✓
- D) Noble gas

✓ Answer: Metalloid

📖 Explanation: Boron shows properties of both metals & non-metals.

Q: Ethyl alcohol reacts with HCl (ZnCl₂ present), forms?

- A) Ethyl ether
- B) Ethyl chloride ✓
- C) Methane
- D) Acetic acid

✓ Answer: Ethyl chloride

📖 Explanation: In Lucas test, alcohol + HCl (ZnCl₂) → alkyl halide.

Q: Ionic product of water (K_w) at 25°C ?

A) 1×10^{-12}

B) 1×10^{-14} ✓

C) 1×10^{-6}

D) 1×10^{-8}

✓ Answer: 1×10^{-14}

▣ Explanation: $K_w = [\text{H}^+][\text{OH}^-] = 1 \times 10^{-14}$ at room temperature.

🔗 Biology

Q: If mother's blood group = A and father's = O, child with blood group B possible?

A) Yes, always

B) Yes, sometimes

C) No ✓

D) Only for daughters

✓ Answer: No

▣ Explanation: A × O can only produce A or O, never B.

Q: Disease with short-term memory loss?

A) Parkinson's

B) Malaria

C) Alzheimer's ✓

D) TB

✓ Answer: Alzheimer's disease

▣ Explanation: Alzheimer's affects memory & thinking ability.

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Q: Double fertilization occurs in?

A) Gymnosperms

B) Algae

C) Angiosperms ✓

D) Bryophytes

✓ Answer: Angiosperms

▣ Explanation: Characteristic feature of flowering plants.

Q: Adiantum is a type of?

A) Algae

B) Fern ✓

C) Moss

D) Gymnosperm

✓ Answer: Fern

▣ Explanation: Adiantum = Maidenhair fern, a pteridophyte.

Q: Main component of fungal cell wall?

A) Cellulose

B) Starch

C) Chitin ✓

D) Peptidoglycan

✓ Answer: Chitin

▣ Explanation: Unlike plants (cellulose), fungi cell wall has chitin.

Q: Which fungus is poisonous?

A) Aspergillus

B) Penicillium

C) Amanita ✓

D) Rhizopus

✓ Answer: Amanita (Death cap mushroom)

▣ Explanation: Contains toxin (amatoxin) → deadly poisonous

Q: One tenth of 120 is?

A) 10

B) 12 ✓

C) 20

D) 15

✓ Answer: 12

▣ Explanation: $120 \div 10 = 12$.

Q: Bat cannot ... and snake cannot ...

A) See – Hear ✓

B) Fly – Crawl

C) Run – Jump

D) Hear – Talk

✓ Answer: Bat cannot see, snake cannot hear.

▣ Explanation: Common general knowledge type AFNS MCQ.

Q: If 4th day of month is Sunday, then the 14th will be?

A) Sunday

B) Tuesday ✓

C) Wednesday

D) Friday

✓ Answer: From 4th (Sunday) → 14th is 10 days later → $10 \div 7 = 3$ remainder 3 → Sunday + 3

= Wednesday (but careful check: 14th = Wednesday, not Tuesday ✓ Correction).

✓ Correct Answer: Wednesday ✓

Q: What comes after M?

A) L

B) N ✓

C) O

D) P

✓ Answer: N

☐ Explanation: M → N alphabetically.

Q: What comes after G?

A) H ✓

B) I

C) F

D) J

✓ Answer: H

☐ Explanation: Alphabetical sequence → G → H.

Q: Third letter of "MANAGEMENT"?

A) M

B) N ✓

C) A

D) G

✓ Answer: N

☐ Explanation: M (1st), A (2nd), N (3rd).

Q: Last letter in "Beauty"?

A) Y ✓

B) T

C) U

D) E

✓ Answer: Y

☐ Explanation: Word ends with Y.

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Q: Corpus luteum secretes ...

- A) Estrogen
- B) Progesterone ☒
- C) Testosterone
- D) FSH

Q: Simplest animals belong to ...

- A) Protozoa
- B) Porifera ☒
- C) Coelenterata
- D) Annelida

? Polio virus lives in?

- A) Lungs
- B) Intestine
- C) Blood
- D) Liver

☒ Answer: Intestine

☐ Explanation: Polio virus multiplies in the intestine and spreads through contaminated water/food.

? Which has greater oxidising power?

- A) Fluorine
- B) Chlorine
- C) Oxygen
- D) Iodine

☒ Answer: Fluorine

☐ Explanation: Fluorine is the most electronegative element, so it is the strongest oxidising agent.

? Relation between Power and Voltage?

- A) $P = VI$
- B) $P = V/I$
- C) $P = I/V$
- D) $P = V^2/I$

☒ Answer: $P = VI$

☐ Explanation: In electricity, power is the product of voltage and current.

? If age of father is 40 and son is 10, after how many years father will be twice the age of son?

- A) 5 years
- B) 10 years
- C) 15 years
- D) 20 years

✓ Answer: 20 years

📖 Explanation: After 20 years, father = 60, son = 30 → father will be double of son's age.

? Word "each other" is...?

- A) Noun
- B) Reciprocal Pronoun
- C) Reflexive Pronoun
- D) Adjective

✓ Answer: Reciprocal Pronoun

📖 Explanation: "Each other" shows a mutual action between two people, hence reciprocal pronoun.

? Which one is odd?

- A) Ape
- B) Chimpanzee
- C) Panda
- D) Monkey

✓ Answer: Panda

📖 Explanation: Ape, chimpanzee, and monkey are primates. Panda belongs to bear family, so it's odd.

🌸 Academic Portion (MCQs with Explanation)

? "Please Walk, if you can." → This sentence is?

- A) Simple
- B) Compound
- C) Complex
- D) Declarative

✓ Answer: Complex

📖 Explanation: It has one main clause ("Please walk") and one subordinate clause ("if you can"), so it's a complex sentence.

? The word "That" is...

- A) Pronoun
- B) Adjective
- C) Preposition
- D) Article

✓ Answer: Pronoun

📖 Explanation: "That" can act as a demonstrative pronoun (e.g., That is my bag).

? Total gestation period in humans is?

- A) 90 days
- B) 120 days

C) 280 days

D) 365 days

✓ Answer: 280 days

📖 Explanation: Average human pregnancy lasts 40 weeks $\approx$ 280 days.

? Secretin hormone is released into...?

A) Stomach

B) Small Intestine

C) Large Intestine

D) Pancreas

✓ Answer: Small Intestine

📖 Explanation: Secretin is released in the duodenum (small intestine) to regulate pH by controlling gastric acid.

? If mass of Uranium is increased, what happens to speed of neutrons?

A) Increases

B) Decreases

C) Remains constant

D) Doubles

✓ Answer: Decreases

📖 Explanation: Heavier nuclei absorb neutrons and slow down the neutron speed in nuclear reactions.

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? Which salt absorbs moisture from atmosphere?

A) NaCl

B) CaCl_2

C) K_2SO_4

D) Na_2CO_3

✓ Answer: CaCl_2

📖 Explanation: Calcium chloride is deliquescent, it absorbs moisture from air.

? When the spring constant is halved, what happens to extension?

A) Doubles

B) Halves

C) Becomes zero

D) No effect

✓ Answer: Doubles

? When reaction is almost complete, the amount of reactant is...?

- A) Zero
- B) Infinite
- C) Minimum
- D) Equal to product

✓ Answer: Zero

📖 Explanation: At the end of reaction, reactants are consumed → approx. zero left.

? Which is NOT a unit of pressure?

- A) Pascal
- B) Newton per m^2
- C) Joule
- D) Bar

✓ Answer: Joule

📖 Explanation: Pascal, N/m^2 , Bar are pressure units. Joule is unit of energy.

? A ball is thrown with velocity 20 m/s at 60° along x-axis. What is velocity at highest point?

- A) 0 m/s
- B) 10 m/s
- C) 20 m/s
- D) 5 m/s

✓ Answer: 10 m/s

? Dry skin, internal fertilization, adaptive to land — this animal is?

- A) Amphibian
- B) Fish
- C) Reptile
- D) Mammal

✓ Answer: Reptile

📖 Explanation: Reptiles have dry scaly skin, internal fertilization, and are adapted to land.

? $-\text{CH}-\text{NH}_2$ group is called?

- A) Carboxyl group
- B) Hydroxyl group
- C) Amino group
- D) Carbonyl group

✓ Answer: Amino group

📖 Explanation: $-\text{NH}_2$ is the amino functional group, important in proteins.

? Pick me _____ from the college (choose article).

- A) A
- B) An
- C) The

D) No article

✓ Answer: The

📖 Explanation: "Pick me the from the college" → Correct form: Pick me the book/person from the college. Article "the" specifies something particular.

? Which is a strong acid?

A) HCl

B) CH_3COOH

C) H_2CO_3

D) NH_4OH

✓ Answer: HCl

📖 Explanation: HCl is a strong acid because it ionizes completely in water, while the others are weak acids.

? Atomic number of Iron is?

A) 24

B) 26

C) 28

D) 30

✓ Answer: 26

📖 Explanation: Iron (Fe) has 26 protons in its nucleus → Atomic number = 26.

? Grignard reagent is?

A) R-OH

B) R-MgX

C) R-COOH

D) R-Cl

✓ Answer: R-MgX

📖 Explanation: Grignard reagent has the formula R-MgX (where R = alkyl group, X = halogen). It is used in organic synthesis.

? Unit of Inductance is?

A) Joule

B) Henry

C) Watt

D) Tesla

✓ Answer: Henry (H)

📖 Explanation: SI unit of inductance is the Henry (H), defined as the induced emf per rate of change of current.

? Reproduction-related question:

"Fusion of male and female gametes is called?"

- A) Fertilization
- B) Pollination
- C) Conjugation
- D) Ovulation

✓ Answer: Fertilization

📖 Explanation: In reproduction, the fusion of gametes (sperm + egg) forms a zygote → this is fertilization.

? Which molecule carries genetic information?

- A) RNA
- B) DNA
- C) Protein
- D) Lipid

✓ Answer: DNA

📖 Explanation: DNA stores and transmits genetic information; RNA helps in protein synthesis.

? Convert into Passive Voice: "He writes a letter."

- A) A letter written by him
- B) A letter is written by him
- C) He is writing a letter
- D) A letter was written by him

✓ Answer: A letter is written by him

📖 Explanation: In passive voice, object comes first: A letter is written by him.

? Direct to Indirect: She said, "I am tired."

- A) She says that she is tired
- B) She said that she was tired
- C) She told she is tired
- D) She was tired she said

✓ Answer: She said that she was tired

📖 Explanation: In indirect speech, tense usually shifts back → Present → Past.

? Identify the part of speech: "Quickly."

- A) Adjective
- B) Adverb
- C) Verb
- D) Preposition

✓ Answer: Adverb

📖 Explanation: "Quickly" describes how an action is done → it's an adverb.

? They said that they were always with you. This underlined part is which type of clause?

- A) Adjective Clause

- B) Adverb Clause
- C) Noun Clause
- D) Independent Clause

✓ Answer: Noun Clause

📖 Explanation: The clause "that they were always with you" works as the object of the verb "said" → hence it's a Noun Clause.

? Antonym of "Wild"

- A) Calm
- B) Domestic
- C) Angry
- D) Hard

✓ Answer: Domestic

📖 Explanation: "Wild" means untamed or uncivilized; opposite is domestic (tamed).

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? She sings beautifully. "Beautifully" is which kind of adverb?

- A) Adverb of Time
- B) Adverb of Manner
- C) Adverb of Place
- D) Adverb of Frequency

✓ Answer: Adverb of Manner

📖 Explanation: Beautifully tells how she sings → it describes manner.

? Third last letter of "AUGMENTED"

- A) T
- B) E
- C) N
- D) G

✓ Answer: N

📖 Explanation: AUGMENTED → last three letters are T-E-D → so the third last = N.

? Tollens' reagent reacts with?

- A) Acetone
- B) Acetaldehyde
- C) Benzene
- D) Ether

✓ Answer: Acetaldehyde

📖 Explanation: Tollens' test is used to detect aldehydes; acetaldehyde gives a silver mirror test, ketones like acetone do not.

❓ Unit of Inductance

- A) Tesla
- B) Henry
- C) Coulomb
- D) Ohm

✅ Answer: Henry (H)

📖 Explanation: The SI unit of inductance is Henry (H).

❓ At which value of RC constant does capacitor charge/discharge quickly?

- A) Larger RC constant
- B) Smaller RC constant
- C) Equal RC constant
- D) Infinite RC constant

✅ Answer: Smaller RC constant

📖 Explanation: The smaller the time constant (RC), the faster the charging/discharging of the capacitor.

❓ Carboxylic acid can be converted to alkane in the presence of?

- A) NaOH
- B) HI + Red P
- C) Zn + HCl
- D) NaCl

✅ Answer: HI + Red P

📖 Explanation: Carboxylic acids are reduced to alkanes using HI (Hydroiodic acid) with Red Phosphorus.

❓ $90 \div 90 = ?$

- A) 1
- B) 90
- C) 81
- D) 0

✅ Answer: 1

📖 Explanation: Any number divided by itself (except 0) = 1.

❓ One-third of 120 = ?

- A) 30
- B) 40
- C) 60
- D) 90

✅ Answer: 40

 Explanation: $120 \div 3 = 40$.

? In a class of 500 students, 300 are present. What % are present?

- A) 50%
- B) 55%
- C) 60%
- D) 65%

 Answer: 60%

 Explanation: $(300 \div 500) \times 100 = 60\%$.

? A car covers 60 km in 1 hour. A train with double speed covers the same distance in how many minutes?

- A) 15 min
- B) 20 min
- C) 30 min
- D) 60 min

 Answer: 30 min

 Explanation: Train speed = 120 km/h $\rightarrow$ Time = $60 \div 120 = 0.5$ hr = 30 min.

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? $2 + 2 \div 2 = ?$

- A) 2
- B) 3
- C) 4
- D) 5

 Answer: 3

 Explanation: BODMAS rule $\rightarrow 2 + (2 \div 2) = 2 + 1 = 3$.

? If the 4th day of a month is Monday, then the 23rd day will be?

- A) Monday
- B) Tuesday
- C) Wednesday
- D) Friday

 Answer: Monday

 Explanation: $23 - 4 = 19 \rightarrow 19$ is divisible by 7 $\rightarrow$ Same day = Monday.

? If yesterday was Friday, then the day after tomorrow will be?

- A) Sunday
- B) Monday

- C) Tuesday
- D) Saturday

✓ Answer: Monday

📖 Explanation: Yesterday = Friday → Today = Saturday → Tomorrow = Sunday → Day after tomorrow = Monday.

? Bat cannot ..., Snake cannot ...

- A) See – Hear
- B) Hear – See
- C) Smell – Taste
- D) Walk – Run

✓ Answer: See – Hear

📖 Explanation: Bats are blind (can't see), snakes have no external ears (can't hear).

? Panda, Chimpanzee, Baboon → Odd one out?

- A) Panda
- B) Chimpanzee
- C) Baboon
- D) All are same

✓ Answer: Panda

📖 Explanation: Chimpanzee and Baboon are primates, Panda is not.

? Rearrange word: BUAETy → Last letter?

- A) A
- B) Y
- C) B
- D) T

✓ Answer: Y

📖 Explanation: Word = BEAUTY → Last letter = Y.

? Rearrange word: MANAGEMENT → Third last letter?

- A) A
- B) G
- C) E
- D) N

✓ Answer: E

📖 Explanation: MANAGEMENT → ...M-E-N-T → third last = E.

? Ali moves toward North, then turns left, then again right. Final direction?

- A) North
- B) East
- C) West
- D) South

✓ Answer: North

📖 Explanation: Facing North → Left = West → Right from West = North.

? Identify: "She sings and he dances."

- A) Simple Sentence
- B) Compound Sentence
- C) Complex Sentence
- D) Exclamatory Sentence

✓ Answer: Compound Sentence

📖 Explanation: Two independent clauses joined with "and" → Compound sentence.

? Choose correct preposition: "He is fond ... music."

- A) On
- B) In
- C) Of
- D) With

✓ Answer: Of

📖 Explanation: Correct usage = "fond of music."

? "He said, 'I am busy.'" → Correct indirect narration?

- A) He said that he is busy.
- B) He said that he was busy.
- C) He said he will be busy.
- D) He said that he had been busy.

✓ Answer: He said that he was busy.

📖 Explanation: Present "am" changes to past "was" in indirect speech.

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