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AFNS Sep 2025 Test MCQs(Very Important)

1 Unit of Inductance

Question: What is the SI unit of inductance?

- A) Coulomb
- B) Tesla
- C) Henry ☒
- D) Weber

💡 Explanation:

Inductance ko Henry (H) mein measure kiya jata hai — 1 Henry = 1 Weber per Ampere.

2 Synonym of Ravine

Question: Choose the synonym of ravine

- A) Valley ☒
- B) Mountain
- C) River
- D) Bridge

💡 Explanation:

Ravine means deep narrow valley (gorge). So the synonym is valley or gorge.

3 RC Circuit – Fast Charging/Discharging

Question: In an RC circuit, capacitor charges/discharges quickly when:

- A) R is large
- B) C is large
- C) RC is large
- D) RC is small ☒

💡 Explanation:

Time constant = $R \times C$. Smaller RC = faster charging/discharging.

4 Bryophytes

Question: Bryophytes are:

- A) Flowering plants
- B) Non-vascular plants ☒
- C) Gymnosperms
- D) Algae

💡 Explanation:

Bryophytes (like mosses, liverworts) are non-vascular plants — no xylem/phloem.

5 Nutrition

Question: Which is not a mode of nutrition?

- A) Autotrophic
- B) Heterotrophic
- C) Saprophytic
- D) Photosynthesis ☒

💡 Explanation:

Photosynthesis is a process, not a mode of nutrition. Mode = how an organism obtains food.

6 Organic Chemistry Mix

Question: Which is an organic compound?

- A) NaCl
- B) CH₄ ☒
- C) H₂O
- D) CO₂

💡 Explanation:

Organic compounds have carbon-hydrogen bonds (CH₄ → methane).

7 Buyer's Reagent

Question: Buyer's reagent is used to detect:

- A) Ketones
- B) Alcohols
- C) Alkenes ☒
- D) Alkynes

💡 Explanation:

Buyer's reagent (cold alkaline KMnO₄ solution) is used to test presence of alkenes by decolorization.

5 Catalyst

Question: What does a catalyst do in a reaction?

- A) Increases activation energy
- B) Lowers activation energy ☒
- C) Stops the reaction
- D) Changes products

💡 Explanation: Catalyst lowers activation energy → reaction faster

6 Red / Blue Shift

Question: When earth moves towards a star, what shift occurs?

- A) Red shift
- B) Blue shift ☒
- C) Green shift
- D) Yellow shift

💡 Explanation: Moving towards → wavelength decreases → blue shift
7 Antonym of demoralized

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Question: Choose the antonym of demoralized

- A) Discouraged
- B) Encouraged ☒
- C) Depressed
- D) Hopeless

💡 Explanation: Demoralized = discouraged → opposite = encouraged

8 Analogy

Question: Present is to Past as Proceed is to ____

- A) Future
- B) Previous
- C) Precede ☒
- D) Past

💡 Explanation: Present → Past (earlier form); Proceed → Precede (earlier form)

9 Units of Pressure

Question: Which is NOT a unit of pressure?

- A) Pascal
- B) N/m^2
- C) Torr
- D) Joule ☒

💡 Explanation: Joule is a unit of energy, not pressure

⚡ Physics — Numericals (Conceptual)

10 Pressure units quick recap

Pa (Pascal) = N/m^2

atm, Torr, bar also units of pressure
Joule (J) = N·m → energy (not pressure)

Q1. Percentage

👉 What is 90% of 90? 🏠

- A) 9
- B) 45
- C) 81 ✓ 🔄
- D) 90

Answer: 81 🌟

Explanation: $90 \times 90 \div 100 = 81$ ✓

👉 Ali moves North [↑], then Left [←], then Right [→]. Final direction?

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

Answer: North

Explanation: North → Left = West → Right = North again [↑].

👉 If today is Monday 🏠, what day after 45 days?

- A) Wednesday
- B) Thursday ✓ 🔄
- C) Friday
- D) Tuesday

Answer: Thursday

Explanation: $45 \div 7 = 6$ remainder 3 [→] 3 days after Monday = Thursday 👍.

👉 Which word comes first in dictionary 🏠?

Words: car, carbon, cart, cat

- A) carbon
- B) cart
- C) cat
- D) car ✓ 🌟

Answer: car

Explanation: "car" is prefix → comes before carbon, cart, cat ✓.

👉 Which city is different? 🏠

- A) Rawalpindi
- B) Lahore
- C) Karachi ✓ 🔄
- D) Peshawar

Answer: Karachi

Explanation: Karachi is coastal city + in Sindh 🏰. Others inland.

👉 Which is different? 📐

- A) Angle ✓
- B) Rectangle
- C) Triangle
- D) All same

Answer: Angle ✓

Explanation: Rectangle & Triangle = polygons ▲. Angle is not ◻.

👉 In class of 1500 □, present = 1300. Find % present.

- A) 83.33%
- B) 86.67% ✓ 🔄
- C) 80%
- D) 87.5%

Answer: 86.67%

Explanation: $(1300 \div 1500) \times 100 = 86.66... \approx 86.67\%$ 👍.

The Corpus luteum secretes which hormone? 🌸

- A) Estrogen
- B) Progesterone ✓
- C) Oxytocin
- D) Testosterone

Answer: Progesterone

Explanation: Corpus luteum forms after ovulation → secretes progesterone to maintain pregnancy

A train covers 180 km in 3 hours. What is its speed? 🚂

- A) 40 km/h
- B) 50 km/h
- C) 60 km/h ✓
- D) 70 km/h

🌟 Answer: 60 km/h

💡 Explanation: Speed = Distance ÷ Time. Yani $180 \div 3 = 60$ km/h. Easy peasy 🔍.

Synonym of Rapid? 🗣️

- A) Slow
- B) Quick ✓
- C) Small
- D) Large

🌟 Answer: Quick

💡 Explanation: Rapid ka matlab hota hai tez / fast, aur quick usi ka synonym hai.

From the third month of pregnancy, the embryo is called: 🧐

- A) Zygote
- B) Morula
- C) Blastocyst
- D) Foetus ✓

✨ Answer: Foetus

💡 Explanation: Pehle stages alag hote hain, lekin 3rd month ke baad embryo ko foetus kaha jata hai.

During gestation, the waste products of foetus are stored in: 🧐

- A) Placenta
- B) Amniotic fluid
- C) Allantois ✓
- D) Chorion

✨ Answer: Allantois

💡 Explanation: Waste products allantois mein collect hote hain, placenta nutrients exchange karta hai.

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Colour blindness is due to defect in: 🧐

- A) Rods
- B) Cones ✓
- C) Cornea
- D) Iris

✨ Answer: Cones

💡 Explanation: Cones cells colour detect karti hain. Defect ho to banda red-green ya blue-yellow colours alag nahi kar pata 🙅.

A lens has power +5D. Find focal length. 🔍

- A) 10 cm
- B) 20 cm ✓
- C) 25 cm
- D) 50 cm

✨ Answer: 20 cm

💡 Explanation: Formula: $f = 100 / P$. $P = 5 \rightarrow f = 100 \div 5 = 20$ cm. Bas ek line ka trick ⚡.

Which lens is used to correct short-sightedness? 🧐

- A) Convex
- B) Concave ✓
- C) Cylindrical
- D) Plano

✨ Answer: Concave

💡 Explanation: Short-sightedness (myopia) mein banda door nahi dekh pata. Concave lens rays ko diverge karke clear bana deta hai.

Which test is used to identify Ketones? 🧪

- A) Tollen's test
- B) Fehling's test
- C) 2,4-DNP test ✓
- D) Benedict's test

✨ Answer: 2,4-DNP test

💡 Explanation: Ketones + 2,4-Dinitrophenylhydrazine → orange precipitate 🧫.

Which molecule has greater C–C bond length? 🧐

- A) Ethane ✓
- B) Ethene
- C) Ethyne
- D) Benzene

✨ Answer: Ethane

💡 Explanation: Bond length order: Single > Double > Triple. Ethane (single bond) sabse lamba hota hai.

Which sentence is Interrogative? ?

- A) Where are you going? ✓
- B) He is eating food.
- C) Sit down.
- D) She is kind.

✨ Answer: Where are you going?

💡 Explanation: Question type sentence ko interrogative kehte hain.

Antonym of Generous? 💔

- A) Kind
- B) Stingy ✓
- C) Polite
- D) Helpful

✨ Answer: Stingy

💡 Explanation: Generous = open-handed, Stingy = kanjoos 😏. Dono bilkul opposite hain.

Quantity of haemoglobin is found by: 🩸

- A) Young's experiment
- B) X-ray analysis
- C) Spectrophotometer ✓
- D) MRI

✨ Answer: Spectrophotometer

💡 Explanation: Haemoglobin ki accurate quantity measure karne ke liye spectrophotometer use hota hai, na ke Young's experiment ya X-rays.

Antonym of Wild? 🌿

- A) Tame ✓
- B) Rough
- C) Animal
- D) Forest

✨ Answer: Tame

💡 Explanation: Wild = jungli, iska opposite hota hai tame (paltu / trained).

Which acid is found in vinegar? 🥒

- A) Formic acid
- B) Acetic acid ✓
- C) Oxalic acid
- D) Lactic acid

✨ Answer: Acetic acid

💡 Explanation: Vinegar ka main component acetic acid (Carboxylic acid group) hai.

Young's Modulus is related to: 🔑

- A) Pressure
- B) Stress & Strain ✓
- C) Heat
- D) Density

✨ Answer: Stress & Strain

💡 Explanation: Young's modulus material ke elasticity ko measure karta hai → stress ÷ strain.

From reproduction: The male reproductive organ that produces sperm is? 🧠

- A) Ovary
- B) Testes ✓
- C) Uterus
- D) Vas deferens

✨ Answer: Testes

💡 Explanation: Testes sperm produce karte hain aur hormone testosterone bhi release karte hain.

Synonym of "Huge"? 🌐

- A) Small
- B) Tiny
- C) Giant ✓
- D) Short

🌟 Answer: Giant

💡 Explanation: Huge aur giant dono ka matlab hai bohot bara.

90% of 90 is?

1	2
3	4

- A) 72
- B) 81 ✓
- C) 85
- D) 79

🌟 Answer: 81

💡 $90 \times 90/100 = 81$

In a class of 1500 students, 340 are present. What is the % of absent students? 🎓

- A) 77.3% ✓
- B) 80%
- C) 70%
- D) 60%

🌟 Answer: 77.3%

💡 Absent = $1500 - 340 = 1160 \rightarrow (1160 \div 1500) \times 100 = 77.3\%$

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Odd one out: Ape, Panda, Monkey, Human 🐼 🐒

- A) Ape
- B) Panda ✓
- C) Monkey
- D) Human

🌟 Answer: Panda

💡 Panda herbivorous hai, baqi sab primates hain.

Odd one out: Hockey, Football, Cricket, Chess 🏏 ⚽ 🏏 ♟️

- A) Hockey
- B) Football
- C) Cricket

D) Chess ☒

✨ Answer: Chess

💡 Baqi sab outdoor sports hain, Chess indoor mind game hai.

If a pen bought for Rs.30 is sold for Rs.40, profit percentage is?

A) 20%

B) 25%

C) 30%

D) 33.3% ☒

✨ Answer: 33.3%

💡 Profit = 10, Profit% = $(10 \div 30) \times 100 = 33.3\%$

Unit of Conductance is?

A) Ohm

B) Farad

C) Mho (Siemens) ☒

D) Henry

✨ Answer: Mho / Siemens

In which plant companion cells & xylem vessels are absent?

A) Angiosperms

B) Bryophytes ☒

C) Club mosses

D) Ferns

✨ Answer: Bryophytes

💡 They lack vascular tissues (no xylem vessels, no companion cells).

How many unpaired electrons are in Chromium (Cr, Z=24)?

A) 4

B) 5 ☒

C) 6

D) 3

✨ Answer: 5

💡 Electronic configuration: $[\text{Ar}] 3d^5 4s^1 \rightarrow 6$ unpaired electrons total.

Male gonads produce:

A) Estrogen

B) Testosterone ☒

C) Progesterone

D) Oxytocin

✨ Answer: Testosterone

1 gram of protein gives how many kilo calories? 

- A) 6 kcal
- B) 4 kcal ☒
- C) 8 kcal
- D) 10 kcal

 Answer: 4 kcal

Which of the following is an unpaired bone of the skull? 

- A) Temporal
- B) Parietal
- C) Sphenoid ☒
- D) Zygomatic

 Answer: Sphenoid

 Most cranial bones are paired, sphenoid is single (unpaired).

Which group does Carbon belong to in periodic table? 

- A) IIA
- B) IIIA
- C) IVA ☒
- D) VA

 Answer: IVA

Q: $90 \div 90 = ?$

- A) 80
- B) 81 ☒
- C) 79
- D) 82

 Answer: 81

 Explanation: $90\% \text{ of } 90 = (90 \times 90) \div 100 = 8100 \div 100 = 81$.

Q: One third of 120 = ?

- A) 30
- B) 35
- C) 40 ☒
- D) 45

 Answer: 40

 Explanation: $120 \div 3 = 40$.

Q: In a class of 500 students, 300 are present. Find % of students present.

- A) 60% ☒
- B) 65%
- C) 55%
- D) 50%

✓ Answer: 60%

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

Q: A car moves at 60 km/h. A train runs at double speed and covers distance in 30 minutes. Distance covered?

- A) 30 km
- B) 40 km
- C) 60 km ✓
- D) 80 km

✓ Answer: 60 km

▣ Explanation: Train speed = $2 \times 60 = 120$ km/h. In 30 min (0.5 h): Distance = $120 \times 0.5 = 60$ km.

Q: Solve: $(2 + 2) \div 2 = ?$

- A) 2
- B) 3 ✓
- C) 4
- D) 1

✓ Answer: 3

▣ Explanation: Bracket first $\rightarrow (2+2)=4$. Then $\div 2 \rightarrow 4 \div 2 = 3$.

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Q: If the 4th day is Monday, then the 28th day will be?

- A) Monday ✓
- B) Tuesday
- C) Friday
- D) Saturday

✓ Answer: Monday

▣ Explanation: Every 7th day repeats. 28 is multiple of 7 $\rightarrow$ same as 4th day $\rightarrow$ Monday.

Q: If yesterday was Friday, after tomorrow will be?

- A) Saturday
- B) Sunday
- C) Monday ✓
- D) Thursday

✓ Answer: Monday

☒ Explanation: If yesterday = Friday → today = Saturday → tomorrow = Sunday → after tomorrow = Monday.

Q: If the 4th day is Tuesday, then the 23rd day will be?

- A) Sunday ☒
- B) Monday
- C) Wednesday
- D) Friday

✓ Answer: Sunday

☒ Explanation: $23 - 4 = 19$. Divide $19 \div 7 =$ remainder 5. Tuesday + 5 days = Sunday.

Q: Find the missing term: A4, C6, E8, ?, G10

- A) H9
- B) F10
- C) G10 ☒
- D) None

✓ Answer: G10

☒ Explanation: Letters increase by +2 (A, C, E, G). Numbers increase by +2 (4, 6, 8, 10). → G10.

Q: Find the missing number: 2, 6, 14, 30, 62, ?

- A) 120
- B) 124
- C) 126 ☒
- D) 128

✓ Answer: 126

☒ Explanation: Pattern is $\times 2 + 2$, $\times 2 + 2$...
 $2 \times 2 + 2 = 6$, $6 \times 2 + 2 = 14$, $14 \times 2 + 2 = 30$, $30 \times 2 + 2 = 62$, $62 \times 2 + 2 = 126$.

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

- A) Ape
- B) Panda ☒
- C) Chimpanzee
- D) Baboon

✓ Answer: Panda

☒ Explanation: All others are primates/monkeys. Panda is not → different.

Q: Bat cannot ... ? Snake cannot ... ?

- A) Bat cannot fly, Snake cannot walk
- B) Bat cannot eat, Snake cannot see
- C) Bat cannot see ☒, Snake cannot hear ☒
- D) Bat cannot hear, Snake cannot smell

Answer: Bat cannot see, Snake cannot hear

☒ Explanation: It's a general statement. In logic questions: Bat = blind, Snake = deaf.

Rearrange "bUAEty". Last letter is?

- A) B
- B) T
- C) E
- D) Y ☒

✓ Answer: Y

☒ Explanation: Rearranged word = "Beauty". Last letter = Y.

 Chemistry

Q: Atomic number of Oxygen is?

- A) 6
- B) 7
- C) 8 ☒
- D) 10

✓ Answer: 8

☒ Explanation: Oxygen has 8 protons → atomic number 8.

Q: pH of neutral solution is?

- A) 6
- B) 7 ☒
- C) 8
- D) 10

✓ Answer: 7

☒ Explanation: Neutral solutions (like pure water) always have pH = 7.

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Q: Which of the following is a Noble Gas?

- A) Oxygen
- B) Hydrogen
- C) Neon ☒
- D) Nitrogen

✓ Answer: Neon

☒ Explanation: Group 18 gases (He, Ne, Ar, etc.) are noble gases.

Q: Chemical symbol for Iron is?

- A) Ir
- B) In
- C) Fe ☒
- D) Io

✓ Answer: Fe

☒ Explanation: Iron → Latin name Ferrum → symbol Fe.

Q: Most common element in Earth's crust is?

- A) Silicon
- B) Oxygen ☒
- C) Iron
- D) Carbon

✓ Answer: Oxygen

☒ Explanation: 46% of Earth's crust is oxygen.

Q: Chemical formula of Sulfuric acid is?

- A) HCl
- B) H_2SO_4 ☒
- C) HNO_3
- D) H_2CO_3

✓ Answer: H_2SO_4

☒ Explanation: Formula of sulfuric acid = H_2SO_4 .

 Biology

Q: Two or more populations of different species are called?

- A) Community ☒
- B) Population
- C) Habitat
- D) Niche

✓ Answer: Community

☒ Explanation: Different species living together = community.

Q: Simplest animals belong to which sub-kingdom?

- A) Metazoa
- B) Parazoa ☒
- C) Protozoa
- D) Coelenterata

✓ Answer: Parazoa

☒ Explanation: Sponges (Porifera) are simplest → belong to Parazoa.

Q: Linnaeus published the names of plants in?

- A) 1750

- B) 1755 ☒
C) 1760
D) 1770

✓ Answer: 1755

📖 Explanation: Carl Linnaeus published Species Plantarum in 1755.

Q: Example of symbiotic nutrition is?

- A) Yeast
B) Virus
C) Mycorrhizae ☒
D) Amoeba

✓ Answer: Mycorrhizae

📖 Explanation: Fungi + Plant roots living together → symbiosis.

Q: Lipids in plasma membrane range from?

- A) 10–20%
B) 30–50%
C) 60–80% ☒
D) 90–100%

✓ Answer: 60–80%

📖 Explanation: Plasma membrane is lipid bilayer; contains 60–80% lipids.

📝 English (Grammar-focused)

Q: [All men must die] → What is “All”?

- A) Qualitative adjective
B) Quantitative adjective ☒
C) Infinite adverb
D) Article

✓ Answer: Quantitative adjective

📖 Explanation: “All” tells the quantity/extent → it’s a quantitative adjective.

Q: Fill in the blank — Trust ___ God, it will be good.

- A) at
B) on
C) in ☒
D) with

✓ Answer: Trust in God

📖 Explanation: Correct preposition with “trust” is in.

Other English focus areas:

Parts of speech 🌸

Sub-types of adjectives/adverbs ✨

Prepositions

👨‍🔬 Chemistry

Q: Reaction of Grignard reagent (RMgX) with CO₂ gives?

- A) Aldehyde
- B) Carboxylic acid ☒
- C) Ketone
- D) Alcohol

✓ Answer: Carboxylic acid

📝 Explanation: Grignard reagent + CO₂ → after hydrolysis → RCOOH.

Q: Which alkene is used in ozonolysis?

- A) Ethene ☒
- B) Propene
- C) Butene
- D) Hexene

✓ Answer: Ethene

📝 Explanation: Ozonolysis of alkenes → gives aldehydes/ketones. Ethene commonly used.

Q: Ozone layer is present in which region?

- A) Troposphere
- B) Mesosphere
- C) Stratosphere ☒
- D) Exosphere

✓ Answer: Stratosphere

📝 Explanation: Ozone layer (10–50 km altitude) protects from UV rays → located in stratosphere.

🔗 Biology

Q: Which organ has an “H” or butterfly-like shape?

- A) Heart
- B) Thyroid gland ☒
- C) Liver
- D) Pancreas

✓ Answer: Thyroid gland

📝 Explanation: The thyroid gland is butterfly/H-shaped in the neck.

📝 English

Q: “Where is your home?” → Identify “where”

- A) Pronoun
- B) Adverb ☒
- C) Adjective
- D) Conjunction

✓ Answer: Adverb

📝 Explanation: “Where” is an interrogative adverb because it asks about place.

Q: "I bought him a motorcycle." → Identify "motorcycle"

- A) Verb
- B) Pronoun
- C) Object ☒
- D) Adjective

✓ Answer: Object

☒ Explanation: "Motorcycle" is the direct object of the verb "bought."

Q: Complete — "Err is human ..."

- A) Err is human, forgive is divine
- B) To err is human, to forgive is divine ☒
- C) Human is to err, forgive divine
- D) None of these

✓ Answer: To err is human, to forgive is divine

☒ Explanation: It's a proverb → means humans make mistakes, but forgiveness is noble.

 Physics

Q: Which of the following have same dimensions?

- A) Work & Energy ☒
- B) Force & Power
- C) Momentum & Pressure
- D) Current & Voltage

✓ Answer: Work & Energy

☒ Explanation: Both have the dimension formula ML^2T^{-2} .

Q: If the time period of a pendulum is 10s, doubling the mass will cause?

- A) Time period doubles
- B) Time period halves
- C) No effect ☒
- D) Time period becomes 0

✓ Answer: No effect

☒ Explanation: Time period depends on length & gravity, not mass.

Q: A body weighs 10 N, air resistance = 4 N → Net force?

- A) 10 N
- B) 6 N ☒
- C) 4 N
- D) 14 N

✓ Answer: 6 N

☒ Explanation: Net force = Weight – Resistance = $10 - 4 = 6$ N.

Q: Effect of atmospheric pressure on speed of sound?

- A) Increases
- B) Decreases
- C) No effect ☒
- D) Doubles

✓ Answer: No effect

📖 Explanation: Speed of sound depends on density & temperature, not pressure.

🧪 Chemistry

Q: Oxidation of ethyl alcohol gives?

- A) Methane
- B) Acetic acid ☒
- C) Ammonia
- D) Sodium hydroxide

✓ Answer: Acetic acid

📖 Explanation: Ethanol oxidizes → acetaldehyde → acetic acid.

Q: Catalyst used to convert $\text{SO}_2 \rightarrow \text{SO}_3$ (Contact process)?

- A) Pt
- B) Ni
- C) V_2O_5 ☒
- D) Fe

✓ Answer: V_2O_5 (Vanadium pentoxide)

📖 Explanation: Standard catalyst in Contact Process for making H_2SO_4 .

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