

Servicesinpak.com



<https://servicesinpak.com/>

Leading Platform for Online Test Preparation

Converting Dreams into Realty

Become a commissioned Officer, Doctor, Engineer, Fighter Pilot, Soldier, Airman, Sailor, Medical assistant, etc.

Pak Army (PMA, TCC, LCC, AFNS, AMC, ICTO, SSC), **Pak Air Force** (Airmen, Airwomen, GD(Pilot, Aeronautical Engineer, AD, IT, Log, Account, Admin, SSC etc), **Pak Navy** (Sailors, marines, FMT, PN Cadet, SSC), **ASF** etc.

For Top Quality and Best Test Preparation [Contact us](#) OR [visit our website](#) (links are click able).

servicesinpak.com

WhatsApp No: 03213756393

WhatsApp No: 03265375874

Email: info@servicesinpak.com

WhatsApp channel: [View and Follow Now](#)

Servicesinpak.com

AFNS Past Paper 2025 PDF 07

AFNS Sep 2025 Test MCQs (Very Important)

Q1. % of Oxygen in CaCO_3 ? 

- a) 40%
- b) 48%
- c) 60%
- d) 72%

 Answer: 48%

 Explanation: $M(\text{CaCO}_3) = 100$, Oxygen mass = 48 $\rightarrow$ % = 48%.

Q2. 1 g of protein gives how much energy?  

- a) 2 kcal
- b) 4 kcal
- c) 6 kcal
- d) 9 kcal

 Answer: 4 kcal

 Explanation: Proteins = 4 kcal/g, Fats = 9 kcal/g, Carbs = 4 kcal/g.

Q3. Reduction of diazonium salt gives: 

- a) Benzene
- b) Phenol
- c) Aniline
- d) Carboxylic acid

 Answer: Benzene

 Explanation: Reduction of diazonium $\rightarrow$ benzene .

Q4. Structural formula of Acetyl Chloride is: 

- a) $\text{CH}_3\text{—COOH}$
- b) $\text{CH}_3\text{—COCl}$
- c) $\text{CH}_3\text{—CH}_2\text{—Cl}$
- d) HCOCl

 Answer: $\text{CH}_3\text{—COCl}$

 Explanation: Acetyl chloride is an acid chloride of acetic acid.

Q5. Composition of secondary cell wall is: 

- a) Cellulose + Hemicellulose + Lignin
- b) Cellulose + Protein + Lipid
- c) Chitin + Protein
- d) Starch + Lignin

💡 Answer: Cellulose + Hemicellulose + Lignin

📖 Explanation: Secondary wall = cellulose + lignin for strength 🔄.

Q6. Types of pronouns include: 📖 ✎

- a) Personal, Reflexive, Demonstrative, Relative, Indefinite, Interrogative, Possessive
- b) Only Personal & Reflexive
- c) Personal, Demonstrative, Articles
- d) Reflexive, Adjectives, Verbs

💡 Answer: Personal, Reflexive, Demonstrative, Relative, Indefinite, Interrogative, Possessive

📖 Explanation: These are the main types of pronouns in English grammar.

🔊 Verbal Portion

Q1. What is 90% of 90? 📖

- a) 72
- b) 80
- c) 81
- d) 85

💡 Answer: 81

Q2. If Ali is 20 years old and his father is 4 times older, what is father's age? ☐

- a) 60 years
- b) 70 years
- c) 80 years
- d) 40 years

💡 Answer: 80 years

📖 Explanation: Father's age = $20 \times 4 = 80$ years.

Q3. Series: 2, 4, 8, 16, ? 📖

- a) 20
- b) 24
- c) 32
- d) 36

💡 Answer: 32

📖 Explanation: Pattern is $\times 2$ each time $\rightarrow$ next = 32.

Q4. A person is facing North, turns right, then again right. Which direction is he facing? 🌀

- a) South
- b) North
- c) East
- d) West

💡 Answer: South

📖 Explanation: North → East → South ☒.

Q6. Mirror image of "CAT" is? ☐

a) TAC

b) $\cap \forall \cap$

c) CTA

d) TCA

💡 Answer: $\cap \forall \cap$

📖 Explanation: Letters appear reversed in mirror image

For Complete preparation/notes/practice tests visit our website:

[servicesinpak.com/afns test preparation/](https://servicesinpak.com/afns-test-preparation/)

WhatsApp No:03213756393

Email: info@servicesinpak.com

Regards

📖 Explanation: Letters appear reversed in mirror image.

📝 Verbal Portion

💡 $2 + 2 \div 2 = ?$

A) 2

B) 3

C) 4

D) 5

☒ Answer: 3

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

💡 Bat can't see and snake can't ...?

A) Walk

B) Hear

C) Smell

D) Bite

☒ Answer: Hear

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

💡 Today is Monday, day after tomorrow will be?

A) Tuesday

B) Wednesday

C) Thursday

D) Friday

☒ Answer: Wednesday

📖 Explanation: Today = Monday $\rightarrow$ Tomorrow = Tuesday $\rightarrow$ Day after tomorrow = Wednesday.

💡 If 4th day of the month is Friday, then 23rd day will be?

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

✓ Answer: Friday

📖 Explanation: $23 - 4 = 19 \rightarrow 19 \div 7 = \text{remainder } 5 \rightarrow \text{Friday} + 5 = \text{Wednesday}$.

? In 2000, population = 1600. It doubles every 5 years. What was the population in 1980?

- A) 100
- B) 200
- C) 400
- D) 800

✓ Answer: 400

📖 Explanation: 1980 $\rightarrow$ 20 years before 2000 $\rightarrow$ 4 cycles of halving $\rightarrow 1600 \div 2 \div 2 \div 2 \div 2 = 100$

(but check again with exact doubling logic: in 1985 = 400 $\rightarrow$ 1990 = 800 $\rightarrow$ 1995 = 1600 $\rightarrow$ 2000 =

3200; seems question statement may be reversed, but mostly answer = 400).

? Children go to school : ?

- A) Grooming
- B) Playing
- C) Fighting
- D) Eating

✓ Answer: Grooming

📖 Explanation: Schooling is mainly for education & grooming.

? Boil milk : ?

- A) To add taste
- B) To make it thick
- C) To kill germs
- D) To cool it

✓ Answer: To kill germs

📖 Explanation: Milk is boiled to destroy harmful bacteria.

📖 Academic Portion

English

? "They said that they were always with me." $\rightarrow$ This is which clause?

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

? One-third of 120 is? ÷

- a) 20
- b) 30
- c) 40
- d) 60

✓ Answer: c) 40

📖 Explanation: $120 \div 3 = 40$.

For Complete preparation/notes/practice tests visit our website:

[servicesinpak.com/afns test preparation/](https://servicesinpak.com/afns-test-preparation/)

WhatsApp No: 03213756393

Email: info@servicesinpak.com

Regards

📁 Academic Portion

Q7. Which gland produces insulin? 🖋

- a) Kidney
- b) Pancreas
- c) Liver
- d) Pituitary

💡 Answer: Pancreas

📖 Explanation: Pancreas releases insulin to regulate blood sugar.

Q8. Which is NOT a unit of pressure? ⚡

- a) Pascal
- b) Newton/m²
- c) Joule
- d) Torr

💡 Answer: Joule

📖 Explanation: Joule is unit of energy, not pressure.

Q9. Bread is formed by which fungi? 📖

- a) Rhizopus
- b) Aspergillus
- c) Penicillium
- d) Yeast

💡 Answer: Yeast

📖 Explanation: Yeast fermentation helps in bread formation.

Q10. Synonym of Wild 🐾

- a) Tamed
- b) Savage

c) Gentle

d) Soft

💡 Answer: Savage

📖 Explanation: Wild $\approx$ Savage, opposite = Tamed.

Q10. Salt that absorbs moisture from air? ☁

a) NaCl

b) CaCl_2

c) KCl

d) AgCl

💡 Answer: CaCl_2

📖 Explanation: Calcium chloride is hygroscopic (absorbs water).

Q11. $-\text{CH}-\text{NH}_2$ group is called? 📌

a) Carboxyl group

b) Hydroxyl group

c) Amino group

d) Ketone group

💡 Answer: Amino group

📖 Explanation: $-\text{NH}_2$ is the functional group of amines.

Physics

Q12. If spring constant is halved, what happens? ⚙

a) Spring becomes stiffer

b) Spring becomes softer

c) No change

d) Breaks

💡 Answer: Softer

📖 Explanation: Smaller constant $\rightarrow$ less restoring force $\rightarrow$ softer spring.

Q13. What is NOT a unit of pressure? ⚡

a) Pascal

b) Newton/m^2

c) Joule

d) Torr

💡 Answer: Joule

📖 Explanation: Joule is a unit of energy, not pressure ✓.

Q14. A ball thrown at 20 m/s at 60° , find velocity at highest point 🏀

a) 10 m/s

b) 20 m/s

c) 15 m/s

d) 12 m/s

💡 Answer: 10 m/s

Q7. 1g of protein gives how much energy? 🐼

a) 2 kcal

b) 3 kcal

c) 4 kcal

d) 5 kcal

💡 Answer: 4 kcal

Q8. Which cell wall layer has lignin? 🐼

a) Primary

b) Secondary

c) Middle lamella

d) None

💡 Answer: Secondary

Q9. Functional group of Acetyl chloride (CH_3COCl) is? 🐼

a) $-\text{COOH}$

b) $-\text{CHO}$

c) $-\text{COCl}$

d) $-\text{OH}$

💡 Answer: $-\text{COCl}$

Q10. Hygroscopic substance absorbs? 🐼

a) Heat

b) Oxygen

c) Moisture

d) Light

💡 Answer: Moisture

Q14. Nervous disorder in brain is called? 🐼

a) Epilepsy

b) Tuberculosis

c) Asthma

d) Scurvy

💡 Answer: Epilepsy

Q15. Growth of two fetuses separately in mother's womb is called? 🐼🐼

a) Identical twins

b) Fraternal twins

c) Siamese twins

d) Clones

💡 Answer: Fraternal twins
✍ Verbal / Reasoning Section

? A helicopter carries 60 gallons of fuel. If it uses 15 gallons per hour, how long will it fly?



- a) 2 hours
- b) 3 hours
- c) 4 hours
- d) 5 hours

✓ Answer: c) 4 hours

📖 Explanation: $60 \div 15 = 4$ hours.

? A person covers 20 km in 1 hour 40 minutes. What is the time for 1 km? ⌚

- a) 3 min
- b) 5 min
- c) 4 min
- d) 6 min

✓ Answer: b) 5 min

📖 Explanation: 20 km $\rightarrow$ 100 minutes, so 1 km = $100/20 = 5$ minutes.

? Solve: $2 + 2 \div 2 \div$

- a) 3
- b) 4
- c) 2
- d) 5

✓ Answer: a) 3

📖 Explanation: BODMAS $\rightarrow 2 \div 2 = 1$, then $2 + 1 = 3$

? Find $\frac{1}{4}$ of $\frac{1}{10}$ of 120 🏠

- a) 3
- b) 4
- c) 5
- d) 6

✓ Answer: a) 3

📖 Explanation: $(\frac{1}{10} \times 120) = 12 \rightarrow (\frac{1}{4} \times 12) = 3$.

For Complete preparation/notes/practice tests visit our website:

[servicesinpak.com/afns test preparation/](https://servicesinpak.com/afns-test-preparation/)

WhatsApp No: 03213756393

Email: info@servicesinpak.com

Regards

? Why do parents send children to school? 🏫

- a) To play
- b) To gain knowledge
- c) To eat food
- d) To sleep

✓ Answer: b) To gain knowledge

📖 Explanation: Main purpose of school = education.

? Why do we boil milk? 🥛🔥

- a) For taste
- b) To kill germs
- c) To make it thick
- d) To add sugar

✓ Answer: b) To kill germs

📖 Explanation: Heat destroys harmful bacteria.

🔗 Biology

? TT gamete is called? 🧬

- a) Homozygous
- b) Heterozygous
- c) Dominant
- d) Recessive

✓ Answer: a) Homozygous

📖 Explanation: Same alleles = homozygous.

? Smallest bone of ear is? 🦻

- a) Malleus
- b) Stapes
- c) Incus
- d) Cochlea

✓ Answer: b) Stapes

📖 Explanation: Stapes is the tiniest bone in the human body.

? DNA is the carrier of? 📄

- a) Protein
- b) Genetic information
- c) Minerals
- d) Hormones

✓ Answer: b) Genetic information

📖 Explanation: DNA stores hereditary info.

? Lamarkism theory explains? 🧠

- a) Inheritance of acquired characters

- b) Natural selection
- c) Mutations
- d) Genetics

✓ Answer: a) Inheritance of acquired characters

📖 Explanation: Lamarck → traits gained in life can pass on.

? Brain and spinal cord make up? 🧠

- a) Peripheral nervous system
- b) Central nervous system
- c) Autonomic nervous system
- d) Somatic nervous system

✓ Answer: b) Central nervous system

📖 Explanation: CNS = brain + spinal cord.

✍ Chemistry

? Propene reacts with HCl to form? 🍷

- a) Propanol
- b) Propyl chloride
- c) 2-chloropropane
- d) Methane

✓ Answer: c) 2-chloropropane

📖 Explanation: Markovnikov's rule → H attaches to C with more H.

For Complete preparation/notes/practice tests visit our website:

[servicesinpak.com/afns test preparation/](https://servicesinpak.com/afns-test-preparation/)

WhatsApp No:03213756393

Email: info@servicesinpak.com

Regards

? Formula of Caustic Soda is? 🍷

- a) NaCl
- b) NaOH
- c) Na₂CO₃
- d) Ca(OH)₂

✓ Answer: b) NaOH

📖 Explanation: Caustic soda = sodium hydroxide.

? Soda lime is a mixture of? 🍷

- a) NaOH + CaO
- b) NaCl + CaCl₂
- c) NaOH + H₂O
- d) CaCO₃ + NaCl

✓ Answer: a) NaOH + CaO

📖 Explanation: Used for removing CO₂.

? Which of these is a catalyst in Haber process? ?

- a) Nickel
- b) Iron
- c) Copper
- d) Zinc

✓ Answer: b) Iron

📖 Explanation: Fe catalyst is used in ammonia production.

? Molarity is defined as? ✎

- a) Moles of solute / mass of solvent
- b) Moles of solute / volume of solution in liters
- c) Mass / volume
- d) Moles / density

✓ Answer: b) Moles of solute / volume of solution in liters

📖 Explanation: $M = n/V$.

🔗 Physics

? Conversion of AC to DC is called? ⚡

- a) Induction
- b) Rectification
- c) Amplification
- d) Oscillation

✓ Answer: b) Rectification

📖 Explanation: Rectifiers convert AC → DC.

? $V = r\omega$ relates to? 📐

- a) Torque
- b) Angular velocity
- c) Centripetal force
- d) Momentum

✓ Answer: b) Angular velocity

📖 Explanation: Linear velocity = radius × angular velocity.

? SI unit of torque is? 🔩

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

✓ Answer: c) Newton-meter

📖 Explanation: Torque = Force × distance.

? Wave speed formula is? 📎

- a) $v = \lambda/T$
- b) $v = f\lambda$
- c) $v = a/t$
- d) $v = r\omega$

✓ Answer: b) $v = f\lambda$

📖 Explanation: Wave speed = frequency $\times$ wavelength.

? Phase difference is measured in? 🔔

- a) Radian
- b) Joule
- c) Newton
- d) Second

✓ Answer: a) Radian

📖 Explanation: Phase difference is angular measure.

🌿 English

? Which is a compound sentence? 📎

- a) He came, and I left.
- b) Although he was late, I waited.
- c) She sings.
- d) Where are you going?

✓ Answer: a) He came, and I left.

📖 Explanation: Two independent clauses joined with a conjunction.

For Complete preparation/notes/practice tests visit our website:

[servicesinpak.com/afns test preparation/](https://servicesinpak.com/afns-test-preparation/)

WhatsApp No: 03213756393

Email: info@servicesinpak.com

Regards

Choose the correct preposition: He is fond ____ music 📎

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

✓ Answer: c) of

📖 Explanation: Correct phrase = fond of.

? Synonym of Rapid? ⚡

- a) Slow
- b) Quick
- c) Weak

d) Lazy

✓ Answer: b) Quick

📖 Explanation: Rapid = fast.

? Antonym of Ancient? 🏛️

a) Modern

b) Old

c) Past

d) Elder

✓ Answer: a) Modern

📖 Explanation: Opposite of ancient = modern.

? Synonym of Flee ☐

a) Run away

b) Walk

c) Hide

d) Arrive

✓ Answer: a) Run away

📖 Explanation: Flee means to escape or run away quickly.

? Which type of noun is "Bunch of grapes"? 🍇

a) Proper noun

b) Abstract noun

c) Material noun

d) Collective noun

✓ Answer: d) Collective noun

📖 Explanation: Bunch represents a collection → collective noun.

🔧 Physics

? In a pressure cooker, temperature...? 🍲

a) Decreases

b) Increases

c) First increases then decreases

d) First decreases then increases

✓ Answer: b) Increases

📖 Explanation: Pressure increases → boiling point rises → temp increases.

? SI unit of capacitance is? ⚡

a) Mho

b) Coulomb

c) Farad

d) Henry

✓ Answer: c) Farad

📖 Explanation: Capacitance = charge/voltage → SI unit = Farad.

? SI unit of time ⌚

- a) Hour
- b) Minute
- c) Cesium second
- d) Krypton 86

✓ Answer: c) Cesium second

📖 Explanation: SI second defined by Cs-133 atomic transition.

For Complete preparation/notes/practice tests visit our website:

[servicesinpak.com/afns test preparation/](https://servicesinpak.com/afns-test-preparation/)

WhatsApp No:03213756393

Email: info@servicesinpak.com

Regards

? Mutual induction numerical usually involves formula: ⚡

- a) $V = L (dl/dt)$
- b) $V = IR$
- c) $V = Ed$
- d) $V = q/t$

✓ Answer: a) $V = L (dl/dt)$

📖 Explanation: Induced emf in mutual induction depends on rate of change of current.

🌿 Chemistry

? Which has highest boiling point? 💧

- a) HF
- b) H_2O
- c) H_2S
- d) NH_3

✓ Answer: b) H_2O

📖 Explanation: Strongest hydrogen bonding in H_2O → highest boiling point.

? Colour of Lead Sulphide (PbS)? 😊

- a) Yellow
- b) Black
- c) White
- d) Brown

✓ Answer: b) Black

📖 Explanation: PbS is a black crystalline solid.

? Which pair of gases diffuses at the same rate (at constant T)?

- a) CO_2 and N_2O
- b) H_2O and H_2S
- c) SO_2 and NO_2
- d) O_2 and N_2

✓ Answer: a) CO_2 and N_2O

📖 Explanation: Graham's law → gases with same molar mass diffuse equally → $M(\text{CO}_2)=44$, $M(\text{N}_2\text{O})=44$.

🌿 Biology

? Length of double helix of DNA is?

- a) 2.4 nm
- b) 3.4 nm
- c) 1.8 nm
- d) 5.0 nm

✓ Answer: b) 3.4 nm

📖 Explanation: One complete turn of DNA helix = 3.4 nm.

? Menstrual cycle is controlled by which part of brain?

- a) Cerebrum
- b) Cerebellum
- c) Medulla
- d) Hypothalamus

✓ Answer: d) Hypothalamus

📖 Explanation: Hypothalamus regulates pituitary → hormones for cycle.

? Which provides rigidity to secondary wall of plants?

- a) Cellulose
- b) Starch
- c) Lignin
- d) Cutin

✓ Answer: c) Lignin

📖 Explanation: Lignin hardens and strengthens secondary wall.

? Which provides support to primary parts of plants?

- a) Cell wall
- b) Cuticle
- c) Lignin
- d) Cortex

✓ Answer: a) Cell wall

📖 Explanation: Primary wall (cellulose) maintains shape and support.

🌿 Intelligence

? If 4th day of month is Sunday, then 19th day will be? 📅

- a) Monday
- b) Tuesday
- c) Wednesday
- d) Thursday

✓ Answer: a) Monday

📖 Explanation: Gap = 15 days $\rightarrow 15 \div 7 = \text{remainder } 1 \rightarrow \text{next day after Sunday} = \text{Monday}.$

? If 14th day of month is Sunday, then 4th day will be? 📅

- a) Tuesday
- b) Wednesday
- c) Thursday
- d) Friday

✓ Answer: c) Thursday

📖 Explanation: Gap = 10 days back $\rightarrow 10 \div 7 = \text{remainder } 3 \rightarrow 3 \text{ days before Sunday} = \text{Thursday}$

Which law explains the recoil of a gun when fired? 🤖

- a) Newton's First Law
- b) Newton's Second Law
- c) Newton's Third Law
- d) Law of Gravitation

✓ Answer: c) Newton's Third Law

📖 Explanation: Action = bullet forward, Reaction = gun backward.

For Complete preparation/notes/practice tests visit our website:

[servicesinpak.com/afns test preparation/](https://servicesinpak.com/afns-test-preparation/)

WhatsApp No:03213756393

Email: info@servicesinpak.com

Regards

? Escape velocity on the Moon compared to Earth is? 🌙

- a) Higher
- b) Lower
- c) Same
- d) Infinite

✓ Answer: b) Lower

📖 Explanation: Moon's gravity is weaker, so lower escape velocity.

? Speed of sound in air at room temperature is approx? 🗣️

- a) 300 m/s
- b) 330 m/s
- c) 343 m/s
- d) 360 m/s

✓ Answer: c) 343 m/s

📖 Explanation: At 20 °C, speed of sound $\approx 343 \text{ m/s}.$

Chemistry

? Chemical formula of bleaching powder? 

- a) CaCl_2
- b) CaOCl_2
- c) Ca(OH)_2
- d) CaCO_3

✓ Answer: b) CaOCl_2

📖 Explanation: Bleaching powder = calcium oxychloride.

? Which element has the highest electronegativity? ⚡

- a) Oxygen
- b) Nitrogen
- c) Fluorine
- d) Chlorine

✓ Answer: c) Fluorine

📖 Explanation: Fluorine (3.98) is most electronegative.

? Which process converts glucose into alcohol in absence of oxygen? 

- a) Respiration
- b) Photosynthesis
- c) Fermentation
- d) Hydrolysis

✓ Answer: c) Fermentation

📖 Explanation: Anaerobic breakdown of glucose $\rightarrow$ ethanol + CO_2 .

Biology

? Which part of the brain controls heartbeat and breathing? 

- a) Cerebrum
- b) Cerebellum
- c) Medulla oblongata
- d) Hypothalamus

✓ Answer: c) Medulla oblongata

📖 Explanation: Medulla regulates involuntary actions (breathing, heartbeat).

English

? Correct the sentence: "He is senior than me." 

- a) He is senior than me.
- b) He is more senior than me.
- c) He is senior to me.

d) He is senior from me.

✓ Answer: c) He is senior to me.

📖 Explanation: Senior is followed by to, not "than".

? Synonym of Precise 🔄

a) Vague

b) Rough

c) Exact

d) Wrong

✓ Answer: c) Exact

📖 Explanation: Precise = accurate, exact.

🧪 Chemistry

? Which gas molecule evolves faster through a small hole (effusion)? 📖

a) O₂

b) H₂

c) CO₂

d) N₂

✓ Answer: b) H₂

📖 Explanation: According to Graham's Law, lighter gas molecules effuse faster.

? Most stable compound among the following? ⚡

a) Methyne

b) Benzene

c) Cis-Methyne

d) Trans-Methyne

✓ Answer: b) Benzene

📖 Explanation: Benzene is resonance-stabilized, hence most stable

? Product when Grignard reagent reacts with CO₂? 🧪

a) Alcohol

b) Aldehyde

c) Carboxylic acid

d) Ketone

✓ Answer: c) Carboxylic acid

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

? Which test is used to detect ketones? 📖

a) Benedict's test

b) Tollen's test

c) Fehling's test

d) 2,4-DNP test

✓ Answer: d) 2,4-DNP test

📖 Explanation: 2,4-DNP gives an orange precipitate with aldehydes & ketones.

? Atomic bomb is based on which reaction? 🧪

- a) Nuclear fusion
- b) Nuclear fission
- c) Chain reaction
- d) Radioactive decay

✓ Answer: b) Nuclear fission

📖 Explanation: Splitting of heavy nuclei (U-235, Pu-239) releases massive energy.

📖 English

? Synonym of Excuse 🙏

- a) Forgive
- b) Justify
- c) Punish
- d) Blame

✓ Answer: b) Justify

📖 Explanation: Excuse means to justify or give a reason

? Synonym of Passive 🧘

- a) Active
- b) Aggressive
- c) Inactive
- d) Energetic

✓ Answer: c) Inactive

📖 Explanation: Passive = not active, inactive.

? The first words which are same alphabetically are called? abc

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

✓ Answer: c) Alliteration

📖 Explanation: Alliteration = repetition of same initial letter.

📖 Physics

? Wavelength range of visible light? 🌈

- a) 200–400 nm
- b) 400–700 nm
- c) 700–1200 nm
- d) 100–300 nm

✓ Answer: b) 400–700 nm

📖 Explanation: Human eye detects EM waves in this range.

? Which has similar units to PV (Pressure $\times$ Volume)? ⚡

- a) Density
- b) Work
- c) Force
- d) Atmospheric pressure

✓ Answer: b) Work

📖 Explanation: $PV = (N/m^2 \times m^3) = \text{Joule}$, same as work.

For Complete preparation/notes/practice tests visit our website:

[servicesinpak.com/afns test preparation/](https://servicesinpak.com/afns-test-preparation/)

WhatsApp No: 03213756393

Email: info@servicesinpak.com

Regards

? Which is solid among the following? 💎

- a) Diamond
- b) Glass
- c) Liquid
- d) Copper

✓ Answer: a) Diamond

📖 Explanation: Diamond is crystalline solid, most rigid.

? The substance that breaks just after the elastic limit is? 📦

- a) Ductile substance
- b) Brittle substance
- c) Elastic substance
- d) Plastic substance

✓ Answer: b) Brittle substance

📖 Explanation: Brittle $\rightarrow$ breaks without deformation once stress passes elastic limit.

🔗 Biology

? Osteoclasts are...? 🦴

- a) Bone-forming cells
- b) Bone-destroying cells
- c) Muscle cells
- d) Nerve cells

✓ Answer: b) Bone-destroying cells

📖 Explanation: Osteoclasts break down bone tissue; osteoblasts build bone.

? Which method is used to remove muscle disorders? 🦶

- a) Physiotherapy

- b) Dialysis
- c) Chemotherapy
- d) Vaccination

✓ Answer: a) Physiotherapy

Explanation: Physiotherapy helps restore movement & reduce muscle disorders.

▣ Academic MCQs

? When momentum = kinetic energy, velocity is? ⚡

- a) Zero
- b) 1 m/s
- c) 2 m/s
- d) Infinite

✓ Answer: a) Zero

📖 Explanation: If $KE = p$, solving equations gives $v = 0$ as only valid solution.

? DNA base pairing rule? 🌀

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

✓ Answer: b) A = T

📖 Explanation: Adenine pairs with Thymine; Guanine with Cytosine.

? Limiting Lyman series lies in? 🌈

- a) Visible region
- b) Infrared region
- c) UV region
- d) Microwave region

✓ Answer: c) UV region

📖 Explanation: Lyman series → electron fall to $n=1$, lies in UV.

? SI unit of mutual induction? 🔄

- a) Tesla
- b) Henry
- c) Weber
- d) Farad

✓ Answer: b) Henry

📖 Explanation: Inductance (self or mutual) → Henry.

? Boyle's Law graph is? 📈

- a) Isotherm
- b) Adiabatic

- c) Isobar
- d) Isochoric

✓ Answer: a) Isotherm

📖 Explanation: Boyle's law ($PV = \text{constant}$) at constant temperature.

? Byproduct of bacterial photosynthesis (sulphur bacteria)? 🦋

- a) Oxygen
- b) Sulphur
- c) Nitrogen
- d) Hydrogen

✓ Answer: b) Sulphur

📖 Explanation: Purple & green bacteria release sulphur, not oxygen.

? Water efflux from bottom hole (Torricelli's theorem)? ⚡

- a) 2.2 m/s
- b) 4.4 m/s
- c) 5.0 m/s
- d) 6.0 m/s

✓ Answer: b) 4.4 m/s

📖 Explanation: $v = \sqrt{2gh}$.

? Which is not a nucleotide? 📖

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

✓ Answer: b) NAD

📖 Explanation: NAD is coenzyme (dinucleotide derivative) not a true nucleotide.

? Voltage leads current in? ⚡

- a) RC circuit
- b) RL circuit
- c) RLC circuit
- d) Pure resistor

✓ Answer: b) RL circuit

📖 Explanation: Inductive reactance causes voltage to lead current.

? Phase difference in 3-phase current? 📖

- a) 60°
- b) 90°
- c) 120°
- d) 180°

✓ Answer: c) 120°

📖 Explanation: Balanced 3-phase system has 120° phase difference.

? "A gust of anger claimed her" means? 😞

- a) Joy
- b) Fit of fury
- c) Relaxation
- d) Calmness

✅ Answer: b) Fit of fury

📖 Explanation: Gust of anger → sudden fit of fury.

? Rotating cup filled to brim of liquid will? 🌀

- a) Speed up
- b) Slow down
- c) Overflow
- d) Remain same

✅ Answer: b) Slow down

📖 Explanation: Rotational motion + liquid → resistance → slows.

? Pasteur vaccine was for? 📌

- a) Rabies
- b) Smallpox
- c) Anthrax
- d) Polio

✅ Answer: c) Anthrax

📖 Explanation: Louis Pasteur developed vaccine for anthrax in 1881.

? Complete phrase: "Slrub ____ my mistake" 📌

- a) Up
- b) Out
- c) Off
- d) In

✅ Answer: c) Off

📖 Explanation: Correct phrasal verb = slrub off.

? Analogy: Rough : Smooth :: Crude : ? 🔄

- a) Weak
- b) Polished
- c) Soft
- d) Hard

✅ Answer: b) Polished

📖 Explanation: Opposite relation → rough vs smooth, crude vs polished.

? Synonym of "cultivated"? 🌿

- a) Tamed
- b) Wild
- c) Harsh
- d) Aggressive

✓ Answer: a) Tamed

📖 Explanation: Cultivated = refined, tamed.

? Dormant mycelium is stored in? 🧠

- a) Embryo
- b) Spore
- c) Cotyledon
- d) Ovary

✓ Answer: b) Spore

📖 Explanation: Mycelium survives in spore form under harsh conditions.

? For sinusoidal current RMS = 10 A, max value is? ⚡

- a) 12 A
- b) 14.14 A
- c) 20 A
- d) 10 A

✓ Answer: b) 14.14 A

📖 Explanation: $I_{\max} = I_{\text{rms}} \times \sqrt{2} = 10 \times 1.414$.

🧠 Verbal & Non-Verbal Intelligence

? Solve: $2 + 2 \div 2$ ➗

- a) 2
- b) 3
- c) 4
- d) 5

✓ Answer: b) 3

📖 Explanation: $2 \div 2 = 1$, $2+1=3$.

? Bat cannot see, Snake cannot? 🐍

- a) Walk
- b) Jump
- c) Hear
- d) Fly

✓ Answer: c) Hear

📖 Explanation: Snakes feel vibrations, but lack external ears.

For Complete preparation/notes/practice tests visit our website:

Servicesinpak.com

[servicesinpak.com/afns test preparation/](https://servicesinpak.com/afns-test-preparation/)

WhatsApp No:03213756393

Email: info@servicesinpak.com

Servicesinpak.com

Servicesinpak.com