Lab Assistant, Higher Education Department — 2022 · Solved Past Paper

Body: Educational Testing and Evaluation Agency (ETEA) · **Post:** Lab Assistant, Higher Education Department · **Year:** 2022 · **Questions:** 61 in the original paper — **61 solved and verified**, none excluded · **Price:** Free

> **How to use this paper:** each question shows the stem, the four options, and the correct answer. Click “Why each option?” under a question to see all four options explained — one question teaches four topics. General Knowledge answers are as of the 2022 sitting.

Source note: mcqsplanet reproduction, 'Lab Assistant ETEA Paper held on 25 December 2022' (61 numbered items Q1–Q61, all with four options and a printed key; accessed 9 Nov 2026). Every printed key was verified independently (own knowledge + web search for the doubtful items) under the owner's 8 Nov 2026 standard. 3 printed keys corrected openly (Q2, Q29, Q46) and 7 PICK-ONE (Q3, Q13, Q14, Q34, Q45, Q50, Q59), all decided by the assistant under the owner's 8 Nov 2026 delegation.

Question 1 Chemistry

The chemical formula of Chile Salt Petre is?

- A. CaOcl2
- B. NaOH
- C. NaNO3 ✓ **Correct answer**
- D. Cao

A. CaOCl2 is bleaching powder, not Chile saltpetre.

B. NaOH is caustic soda.

petre is sodium nitrate, $NaNO_3$.

D. CaO is quicklime (calcium oxide).

Question 2 Physics

The heat transfer from a hotter place to a colder place with or without having a material medium in between is called?

- A. Radiation ✓ **Correct answer**
- B. Conviction
- C. Conduction
- D. Sublimation

A. Radiation transfers heat from a hotter place to a colder place with or without a material medium — the Class 9 textbook definition; the printed key C (Conduction) is wrong because conduction needs a material medium.

B. Conduction needs a material medium; it cannot transfer heat without one.

C. Convection needs a moving fluid medium.

D. Sublimation is solid turning directly into gas, not heat transfer. PRINTED-KEY CORRECTION: the reproduction keys this C (Conduction); the textbook definition of radiation is exactly the stem's wording, so the answer is A (Radiation). Decided by assistant under owner's 8 Nov 2026 delegation.

Question 3 Physics

The value of thermal conductivity for copper is?

- A. 240W/m k
- B. 385W/m k ✓ **Correct answer**
- C. 400W/m k
- D. 430W/m k

is far below copper's conductivity.

B. 385 W/m·K is the value in the standard textbook tables for copper.

C. 400 W/m·K is also cited for pure copper, so this is a genuine rival, not a distractor.

D. 430 W/m·K is above copper's value.

Question 4 Physics

In Kelvin scale of temperature, the boiling point of water is marked as?

- A. 212 K
- B. 273 K
- C. 280 K
- D. 373 K ✓ **Correct answer**

A. 212 K is 212 on the Fahrenheit scale, not Kelvin.

B. 273 K is the freezing point of water (0 °C).

C. 280 K is about 7 °C, not boiling.

D. Water boils at 100 °C, which is 373 K.

Question 5 Physics

F = Kx is the mathematical expression of?

- A. Newton’s Law
- B. Hooke’s Law ✓ **Correct answer**
- C. Len’s Law
- D. Faraday Law

A. Newton's law is F = ma, not F = kx.

B. F = kx is Hooke's law for a spring's restoring force.

is about induced current, not F = kx.

D. Faraday's law is about induced emf, not F = kx.

Question 6 General Knowledge

The oldest tennis tournament in the world is?

- A. French Open
- B. Australian Open
- C. Wimbledon ✓ **Correct answer**
- D. US Open

A. The French Open began in 1891, later than Wimbledon.

B. The Australian Open began in 1905.

C. Wimbledon, first played in 1877, is the oldest tennis tournament in the world.

D. The US Open began in 1881.

Question 7 General Knowledge

International Court of Justice its head office in?

- A. Russia
- B. USA
- C. Canada
- D. Netherland ✓ **Correct answer**

A. The ICJ is not in Russia.

B. The ICJ is not in the USA.

C. The ICJ is not in Canada.

D. The International Court of Justice sits at The Hague in the Netherlands.

8 General Knowledge

Nippon is the former name of?

- A. Nepal
- B. Indonesia
- C. Japan ✓ **Correct answer**
- D. Finland

A. Nippon is not a former name of Nepal.

B. Nippon is not a former name of Indonesia.

C. Nippon is the Japanese name for Japan.

D. Nippon is not a former name of Finland.

Question 9 General Knowledge

Identify the country which was the runner up of FIFA world cup 2018?

- A. Brazil
- B. Netherland
- C. Croatia ✓ **Correct answer**
- D. Germany

A. Brazil lost in the quarter-finals in 2018.

B. The Netherlands did not qualify for the 2018 World Cup.

C. Croatia lost the 2018 final to France, so Croatia was runner-up.

D. Germany went out in the group stage in 2018.

Question 10 General Knowledge

Singapore was previously part of?

- B. Poland
- C. Malaysia ✓ **Correct answer**
- D. Bangladesh

A. Singapore was never part of South Korea.

B. Singapore was never part of Poland.

C. Singapore was part of Malaysia from 1963 until independence in 1965.

D. Singapore was never part of Bangladesh.

Question 11 General Knowledge

Which of the following is the largest Gulf in the world?

- A. Gulf of Africa
- B. Gulf of Oman
- C. Gulf of Arabia
- D. Gulf of Mexico ✓ **Correct answer**

A. There is no recognised 'Gulf of Africa'.

B. The Gulf of Oman is much smaller than the Gulf of Mexico.

C. The Gulf of Arabia is not a recognised large gulf.

D. The Gulf of Mexico is the largest gulf in the world.

Question 12 General Knowledge

“ GroundStroke ” is associated with which of the following games?

- A. Cricket
- B. Badminton
- C. Tennis ✓ **Correct answer**

A. A groundstroke is not a cricket shot.

B. A groundstroke is not a badminton shot.

C. A groundstroke is a tennis shot played after the ball bounces.

D. A groundstroke is not a hockey shot.

Question 13 Islamiat

The condition of after Standing from Ruku is known as?

- A. Ruku
- B. Jalsa
- C. Qiyam ✓ **Correct answer**
- D. Sajda

A. Ruku is the bowing itself, not the standing after it.

B. Jalsa is the sitting between the two Sajdahs.

C. Qiyam is standing in prayer, the intended answer for the standing position after Ruku.

D. Sajda is prostration, not standing.

Question 14 Pakistan Studies

The British Government encouraged ___ educational Institutions?

- A. Government ✓ **Correct answer**
- B. Private
- C. Missionary
- D. Religious

A. The British did open government schools, so this is the intended answer.

n also encouraged private enterprise in education (Hunter Commission, 1882).

C. Missionary schools were encouraged through grants-in-aid.

D. Religious institutions were not the ones the British administration encouraged.

Question 15 Pakistan Studies

The Quaid-e-Azam presented his famous fourteen points in Response to?

- A. Pirpur Report
- B. Cabinet Mission
- C. Crips Mission
- D. Nehru Report ✓ **Correct answer**

A. The Pirpur Report was the Muslim League's 1938 report on Congress rule, not the trigger for the Fourteen Points.

B. The Cabinet Mission came in 1946, long after 1929.

C. The Cripps Mission came in 1942.

D. Jinnah presented his Fourteen Points in 1929 in response to the Nehru Report of 1928.

Question 16 Pakistan Studies

Shimla Deputation of 1906 had the following Purpose?

- A. The Deputation was advised to take active part on politics
- B. The Deputation was directed to be friendly with the rulers
- C. To be in harmony with the Hindu Community of India
- D. For future elections in the country muslim community would get separate electorate ✓ **Correct answer**

A. The deputation did not aim at active politics.

B. Friendliness with the rulers was not its stated purpose.

with Hindus was not its purpose.

D. The Shimla Deputation (1906) asked for separate electorates for Muslims in future elections.

Question 17 Pakistan Studies

Who was the care taker Prime Minister of Pakistan from 5 November 1996 to 27 February 1997?

- A. Mir Balakh Sher Mazari
- B. Malik Meraj Khalid ✓ **Correct answer**
- C. Moen Qureshi
- D. Mohammad Mian Soomro

A. Mir Balakh Sher Mazari was caretaker PM in 1993, not 1996–97.

B. Malik Meraj Khalid was caretaker Prime Minister from 5 November 1996 to 27 February 1997.

C. Moeen Qureshi was caretaker PM in 1993.

D. Muhammad Mian Soomro was caretaker PM in 2007–08.

Question 18 Biology

Plastid are of ____types.

- A. Two
- B. Three ✓ **Correct answer**
- C. Four
- D. Five

A. Plastids are not of two types.

B. Plastids are of three types: chloroplasts, chromoplasts and leucoplasts.

D. Plastids are not of five types.

Question 19 Biology

Cell membrane is made of ____?

- A. Cellulose Only
- B. Proteins Only
- C. Lipid Only
- D. Lipids and Proteins ✓ **Correct answer**

A. The cell membrane is not cellulose only — cellulose is the plant cell wall.

B. The cell membrane is not proteins only.

C. The cell membrane is not lipid only.

D. The cell membrane is a lipid bilayer with embedded proteins: lipids and proteins.

Question 20 Biology

Enzymes are organic catalysts. They are mainly ___ in nature.

- A. Proteins ✓ **Correct answer**
- B. Fats
- C. Starch
- D. Carbohydrates

A. Enzymes are organic catalysts made mainly of proteins.

B. Enzymes are not mainly fats.

C. Enzymes are not mainly starch.

D. Enzymes are not mainly carbohydrates.

21 Biology

When a cell needs energy, the terminal phosphate bond of ATP is broken to release ___ energy.

- A. 6.3 kcal
- B. 6.6 Kcal
- C. 7.3 Kcal ✓ **Correct answer**
- D. 7.6 Kcal

A. Breaking the terminal phosphate bond of ATP does not release 6.3 kcal.

B. It does not release 6.6 kcal.

C. It releases about 7.3 kcal of energy.

D. It does not release 7.6 kcal.

Question 22 Biology

Under resting condition, the rate of breathing is ___ times per minute.

- A. 5-10
- B. 15-20 ✓ **Correct answer**
- C. 20-25
- D. 30-35

A. 5–10 breaths a minute is below the normal resting rate.

B. The normal resting breathing rate is about 12–20 times a minute, so 15–20 fits.

C. 20–25 is above the usual resting rate.

D. 30–35 is far above the resting rate.

23 Biology

In pre-diabetes, the blood glucose level at 8-10 hours fast will be ___ mg/100ml?

- A. Above 126
- B. From 70-99
- C. Below 70
- D. From 100-125 ✓ **Correct answer**

A. Above 126 mg/dL fasting is diabetes, not pre-diabetes.

B. 70–99 mg/dL fasting is normal.

C. Below 70 mg/dL is hypoglycaemia.

D. Pre-diabetes is a fasting glucose of 100–125 mg/dL.

Question 24 Biology

In the central nervous system, myelinated axons from the ___ matter.

- A. Brown
- B. Black
- C. Grey
- D. White ✓ **Correct answer**

A. Myelinated axons do not form brown matter.

B. They do not form black matter.

C. Grey matter is mainly cell bodies, not myelinated axons.

D. Myelinated axons form the white matter of the central nervous system.

Question 25 Physics

The straight line passing through the pole ‘p’ and the center of curvature “C” of a mirror

— of that mirror.

- A. Aperture
- B. Pole
- C. Principal Focus
- D. Principal Axis ✓ **Correct answer**

A. The aperture is the mirror's opening, not the line through pole and centre of curvature.

B. The pole is the mirror's centre point, not the line.

C. The principal focus is a point on the axis, not the line itself.

D. The line through the pole and the centre of curvature is the principal axis.

Question 26 Physics

If the radius of curvature of a concave mirror is 60 cm, what is its focal length?

- A. 30 cm ✓ **Correct answer**
- B. 60 cm
- C. 90 cm
- D. 120 cm

A. Focal length is half the radius of curvature: 60 ÷ 2 = 30 cm.

B. 60 cm is the radius of curvature, not the focal length.

C. 90 cm has no relation to R = 60 cm.

D. 120 cm is twice the radius, not half.

Question 27 Physics

The unit of electric intensity is?

- A. NC

1 ✓ Correct answer

- C. NC-2
- D. None of these

A. NC is not the unit; electric intensity is force per charge.

B. Electric intensity is measured in newtons per coulomb, N/C, written NC^{-1}.

C. NC^{-2} is not a unit of electric intensity.

D. 'None of these' is wrong: NC^{-1} is the unit.

Question 28 Physics

In electrolysis, the electric current is produced due to the flow ___?

- A. Positive Charges
- B. Negative Charges
- C. Both Positive and Negative Charges ✓ **Correct answer**
- D. None of these

A. In electrolysis the current is not carried by positive charges alone.

B. It is not carried by negative charges alone.

C. In an electrolyte both positive ions (cations) and negative ions (anions) carry the current.

D. 'None of these' is wrong: both kinds of charge carry it.

Question 29 Physics

Four resistors of 15 ohm are connected in series across a 30V battery. What current rows in the circuit?

- A. 0.2 A
- B. 0.3 A

- D. 0.5 A ✓ **Correct answer**

A. Four 15 Ω resistors in series give 60 Ω; I = 30 V ÷ 60 Ω = 0.5 A, not 0.2 A.

B. 0.3 A would need 100 Ω.

C. 0.4 A would need 75 Ω.

D. Four 15 Ω resistors in series give 60 Ω, so I = 30 ÷ 60 = 0.5 A. PRINTED-KEY CORRECTION: the reproduction keys this C (0.4 A) and even prints Q28's answer text ('Both Positive and Negative Charges') as the key text; the worked value is 0.5 A, so the answer is D. Decided by assistant under owner's 8 Nov 2026 delegation.

Question 30 Physics

Lenz Law is an example of the principle of conservation of ___?

- A. Charge
- B. Energy ✓ **Correct answer**
- C. Current
- D. Voltage

A. Lenz's law is not about conservation of charge.

B. Lenz's law (the induced current opposes the change) is an example of conservation of energy.

C. It is not about conservation of current.

D. It is not about conservation of voltage.

Question 31 General Knowledge

United Nations University is situated in:

- A. Frankfurt, Germany

- C. Riyadh, Saudi Arabia
- D. Tokyo, Japan ✓ **Correct answer**

A. The United Nations University is not in Frankfurt.

B. It is not in Montreal.

C. It is not in Riyadh.

D. The United Nations University is headquartered in Tokyo, Japan.

Question 32 General Knowledge

Sky News is the famous news channel of which country?

- A. Brazil
- B. Belgium
- C. Mexico
- D. United Kingdom ✓ **Correct answer**

A. Sky News is not a Brazilian channel.

B. It is not a Belgian channel.

C. It is not a Mexican channel.

D. Sky News is a British news channel, based in the United Kingdom.

Question 33 General Knowledge

Which country has the most post offices?

- A. China
- B. America
- C. Russia
- D. India ✓ **Correct answer**

s not have the most post offices.

B. The USA (America) does not have the most.

C. Russia does not have the most.

D. India has the most post offices in the world.

Question 34 Islamiat

Which of the following is the most important Rukn of Hajj?

- A. Sacrifice
- B. Sayee
- C. Tawaf ✓ **Correct answer**
- D. Praying 40 Prayers at Madina Munwar

A. Sacrifice is not a Rukn of Hajj.

B. Sayee is a Wajib of Hajj, not its foremost Rukn.

C. Tawaf (Tawaf-e-Ziyarah) is a Rukn of Hajj and the intended answer.

D. Praying 40 prayers at Madina is not a Rukn of Hajj.

Question 35 Islamiat

تکبیر تحریمہ ـــــ کا حصہ ہے؟

A. شرائط نماز

Correct answer ✓ B. ارکان نماز

C. نماز کی سنتوں

D. ان میں سے کوئی نہیں

A. Takbeer-e-Tahrima is not a Shart (condition) of prayer.

-Tahrima is one of the Arkan (pillars) of prayer.

C. It is not a Sunnah of prayer.

D. 'None of these' is wrong: it is an Arkan.

Question 36 Pakistan Studies

The Simon Commission was welcomed with?

- A. Stones
- B. Sticks
- C. Flowers
- D. Flags ✓ **Correct answer**

A. The Simon Commission was not welcomed with stones.

B. It was not welcomed with sticks.

C. It was not welcomed with flowers.

D. The Simon Commission was met with black-flag protests — 'Simon Go Back' — so flags is the intended answer.

Question 37 Pakistan Studies

Where was Sir Syed Ahmad Khan born?

- A. Bengal
- B. Madras
- C. Agra
- D. Delhi ✓ **Correct answer**

A. Sir Syed Ahmad Khan was not born in Bengal.

B. He was not born in Madras.

D. Sir Syed Ahmad Khan was born in Delhi in 1817.

Question 38 Pakistan Studies

Khilafat Committee and the Congress participated in the election under the?

- A. Act of 1919 ✓ **Correct answer**
- B. Act of 1917
- C. Act of 1921
- D. Act of 1916

A. The Khilafat Committee and the Congress contested the 1920 elections under the Government of India Act 1919.

B. There was no Act of 1917 of this kind.

C. There was no Act of 1921 of this kind.

D. There was no Act of 1916 of this kind.

Question 39 Pakistan Studies

Who was the opponent of Ayub Khan in the Presidential election of 1965?

- A. Mrs. Ali Khan
- B. Miss Fatima Jinnah ✓ **Correct answer**
- C. Iskandar Mirza
- D. General Yahya Khan

A. Mrs Ali Khan was not Ayub Khan's opponent.

B. Fatima Jinnah opposed Ayub Khan in the 1965 presidential election.

C. Iskandar Mirza had died in 1969 and was not the opponent.

an was not the 1965 opponent.

Question 40 General Knowledge

National fish of Pakistan is?

- A. Mahseer ✓ **Correct answer**
- B. Blue Marlin
- C. Flounder
- D. Hogfish

A. The Mahseer is Pakistan's national fish.

B. The Blue Marlin is not Pakistan's national fish.

C. The Flounder is not Pakistan's national fish.

D. The Hogfish is not Pakistan's national fish.

Question 41 Pakistan Studies

Quaid-e-Azam visited ___ times to Islamia College Peshawar?

- A. Two
- B. Three ✓ **Correct answer**
- C. Four
- D. None of these

A. Quaid-e-Azam did not visit Islamia College Peshawar twice.

B. He visited three times: in 1936, 1945 and 1948.

C. He did not visit four times.

D. He did visit the college, so 'None of these' is wrong.

42 Chemistry

The electronic configuration of calcium (Ca) is?

- A. 1s2 2s2 2p6 3s2 3p6 4s2 ✓ **Correct answer**
- B. 1s2 2s2 2p6 3s2 3p2 4s2
- C. 1s4 2s2 2p6 3s2 3p6
- D. 1s2 2s1 2p2 3s2 3p4 4s2 4p4

A. Calcium (atomic number 20) is $1s^2\ 2s^2\ 2p^6\ 3s^2\ 3p^6\ 4s^2$.

B. This has $3p^2$ instead of $3p^6$, so it is not calcium.

C. This has the wrong electron count for calcium.

D. This has 4p electrons, which calcium does not have.

Question 43 Chemistry

The minimum energy required to remove the valence electron from the outermost shell of gaseous atom to form the positive ion is called ionization potential or ionization energy. Which one of the following atom will have highest ionization energy?

- A. Helium ✓ **Correct answer**
- B. Boron
- C. Fluorine
- D. Lithium

A. Helium holds its electrons most tightly, so it has the highest first ionisation energy.

B. Boron's ionisation energy is much lower than helium's.

C. Fluorine's is high but below helium's.

D. Lithium's is the lowest of the four.

44 Chemistry

Hydrogen Chloride (HCL) boils at?

- A. 2°C
- B. -40°C
- C. -65°C
- D. -85°C ✓ **Correct answer**

A. Hydrogen chloride does not boil at 2 °C.

B. It does not boil at −40 °C.

C. It does not boil at −65 °C.

D. Hydrogen chloride boils at about −85 °C.

Question 45 Chemistry

The pressure exerted by the vapors of the liquid when the rate of evaporation becomes equal to rate of condensation is called vapor pressure. Vapor pressure depend upon on which of the following factor/s?

- A. Nature of liquid Only ✓ **Correct answer**
- B. Intermolecular Force Only
- C. Size of the Molecules Only
- D. All of these

A. Vapour pressure depends on the nature of the liquid — the intended answer.

B. Intermolecular force is part of the liquid's nature, not a separate complete answer.

C. Molecular size alone does not determine vapour pressure.

D. 'All of these' is wrong because molecular size is not a determining factor.

46 Chemistry

"Fog and humidity in air" is the example of which one of the following types of solution?

- A. Gas in Liquid
- B. Liquid in Gas ✓ **Correct answer**
- C. Liquid in Liquid
- D. Gas in Gas

A. Fog is not gas dispersed in liquid.

B. Fog is liquid droplets dispersed in a gas — liquid in gas.

C. Fog is not liquid dispersed in liquid.

D. Fog is not gas dispersed in gas. PRINTED-KEY CORRECTION: the reproduction keys this C (Liquid in Liquid); fog is an aerosol of liquid droplets in air, i.e. liquid in gas, so the answer is B. Decided by assistant under owner's 8 Nov 2026 delegation.

Question 47 Chemistry

When Oxygen is used as an oxidizing agent at high temperature and pressure by dissolving it in wastewater, the process is known as?

- A. Wet Reduction
- B. Wet Oxidation ✓ **Correct answer**
- C. Dry Reduction
- D. Dry Oxidation

A. Wet oxidation uses oxygen at high temperature and pressure in wastewater; wet reduction is not the process.

B. Wet oxidation is the process described.

C. Dry reduction is not the process.

D. Dry oxidation is not the process.

48 Chemistry

The name Platinum is derived from P latina which means little silver and is a ___ language word.

- A. Greek
- B. Latin
- C. Spanish ✓ **Correct answer**
- D. Egypt

A. 'Platina' is not a Greek word.

B. It is not a Latin word.

C. 'Platina' is Spanish for 'little silver', from which platinum takes its name.

D. It is not an Egyptian word.

Question 49 Physics

A man whose mass is 75 kg walks up a flight of 12 steps each 20 cm high in 5 seconds. Find the power he develops in watt?

- A. 360 Watts ✓ **Correct answer**
- B. 370 Watts
- C. 390 Watts
- D. 400 Watts

A. Work = mgh = 75 × 10 × 2.4 = 1,800 J in 5 s, so power = 360 W.

B. 370 W does not match the calculation.

C. 390 W does not match the calculation.

D. 400 W does not match the calculation.

50 Physics

Work done = ____?

- A. F = z
- B. Kinetic Energy ✓ **Correct answer**
- C. Potential Energy
- D. All of these

A. Option A prints 'F = z', apparently a garbled F × s, which would also state work done correctly.

B. By the work–energy theorem, work done equals the change in kinetic energy — the intended answer.

C. Work done is not potential energy itself.

D. 'All of these' is wrong because the options do not all state work done. REPRODUCTION NOTE: option A prints 'F = z', apparently a garbled 'F × s'. Filed as printed, never silently corrected.

Question 51 Physics

Mathematical form of centripetal force is?

- A. Mv/r
- B. Mv/r-2
- C. Mv2/r ✓ **Correct answer**
- D. None of these

A. Centripetal force is mv^2/r, not mv/r.

B. mv/r^{-2} is not the formula.

C. Centripetal force is mv^2/r.

D. 'None of these' is wrong. mv^2/r is the formula.

52 Physics

Conventionally, clockwise torque is taken as?

- A. Positive
- B. Negative ✓ **Correct answer**
- C. Positive as well as Negative
- D. Neither Positive nor Negative

A. Clockwise torque is not conventionally positive.

B. Clockwise torque is conventionally taken as negative.

C. It is not both positive and negative.

D. It is assigned a sign, so 'neither' is wrong.

Question 53 Physics

Which of the following is a vector quantity?

- A. Power
- B. Volume
- C. Electric Current
- D. None of these ✓ **Correct answer**

A. Power is a scalar quantity.

B. Volume is a scalar quantity.

C. Electric current is a scalar quantity, despite having direction.

D. None of the three is a vector, so 'None of these' is the answer.

Question 54 Physics

Mass x Velocity = ___?

mentum ✓ **Correct answer**

- B. Inertia
- C. Moment Arm
- D. Force

A. Mass × velocity is momentum.

B. It is not inertia.

C. It is not moment arm.

D. It is not force (force is mass × acceleration).

Question 55 Physics

___ is the maximum displacement of the body on either side of its equilibrium position?

- A. Wavelength
- B. Displacement
- C. Amplitude ✓ **Correct answer**
- D. Frequency

A. Wavelength is the distance between wave crests, not the maximum displacement.

B. Displacement is any distance from equilibrium, not the maximum.

C. The maximum displacement on either side of equilibrium is the amplitude.

D. Frequency is the number of oscillations per second, not displacement.

Question 56 Physics

A wave transfers ___?

- A. Heat
- B. Energy ✓ **Correct answer**
- C. Force

A. A wave does not transfer heat as such.

B. A wave transfers energy from one place to another.

C. A wave does not transfer force.

D. A wave does not transfer particles (matter) along with it.

Question 57 General Knowledge

A celestial body revolving around a planet is known as?

- A. Asteroids
- B. Comets
- C. Meteors
- D. Moon ✓ **Correct answer**

A. Asteroids orbit the Sun, not a planet.

B. Comets orbit the Sun, not a planet.

C. Meteors are not bodies revolving around a planet.

D. A natural satellite, such as the Moon, revolves around a planet.

Question 58 Islamiat

First Sajdah is present in which surah of the Holy Q uran?

- A. Surah Anjum ✓ **Correct answer**
- B. Surah Baqra
- C. Surah Rehman
- D. Surah Namal

A. Surah An-Najm contains the first sajdah verse to be revealed — the Prophet recited it in

(Bukhari/Muslim via Ibn Mas'ud).

B. Surah Al-Baqarah contains no sajdah verse.

C. Surah Ar-Rahman contains no sajdah verse.

D. Surah An-Naml does contain a sajdah (27:26), but it was not the first to be revealed.

NOTE: the first sajdah in mushaf order is in Surah Al-A'raf (7:206), which is not offered; the bank's 'first' is the first revealed, which is An-Najm.

Question 59 Islamiat

Giving your things to another needy persons and sacrificing your need is called?

- A. Generosity
- B. Zakat
- C. charity ✓ **Correct answer**
- D. Sacrifice

A. Generosity is the general quality, not the act described.

B. Zakat is the obligatory alms, not the voluntary sacrifice described.

C. Charity (sadaqah) is the giving described — the intended answer.

D. Sacrifice alone does not name the giving to a needy person.

Question 60 Biology

___ deals with the study of insects?

- A. Parasitology
- B. Entomology ✓ **Correct answer**
- C. Taxonomy
- D. Histology

gy is the study of parasites, not insects.

B. Entomology is the study of insects.

C. Taxonomy is classification, not the study of insects.

D. Histology is the study of tissues, not insects.

Question 61 Biology

The cell wall of puffballs is made of ___?

- A. Marine
- B. Cellulose
- C. Chitin ✓ **Correct answer**
- D. None of these

A. Puffballs are fungi; their cell walls are not made of marine matter.

B. Fungal cell walls are not cellulose (that is plants).

C. Fungal cell walls, including puffballs', are made of chitin.

D. 'None of these' is wrong: chitin is the answer.

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Source: https://mcqsplanet.com/lab-assistant-etea-paper-held-on-25-december-2022/ (accessed 8 Nov 2026). See the source note on this page about the fold-in corrections.