

Life Sciences • 50 MCQs

South Asia STEM Quest 2025 • Senior Division

Which organelle is called the 'powerhouse of the cell'?

- a) Ribosome
- b) Mitochondria
- c) Golgi apparatus
- d) Nucleus

Answer: b) Mitochondria

No diagrams. 50 questions per topic. Answers included.

2. Which biomolecule is the main source of quick energy for cells?

- a) Proteins
- b) Lipids
- c) Carbohydrates
- d) Nucleic acids

Answer: c) Carbohydrates

3. Which vitamin is essential for blood clotting?

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

Answer: b) Vitamin K

4. Which part of the brain controls balance and coordination?

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

Answer: b) Cerebellum

5. Which hormone lowers blood glucose levels?

- a) Glucagon
- b) Thyroxine
- c) Insulin
- d) Cortisol

Answer: c) Insulin

6. Which tissue transports water in plants?

- a) Phloem
- b) Xylem
- c) Cambium
- d) Cortex

Answer: b) Xylem

7. Which pigment captures light for photosynthesis?

- a) Carotene
- b) Chlorophyll
- c) Xanthophyll
- d) Anthocyanin

Answer: b) Chlorophyll

8. Which plant hormone primarily promotes cell elongation?

- a) Auxin
- b) Cytokinin
- c) Gibberellin
- d) Ethylene

Answer: a) Auxin

9. Which flower structure produces pollen grains?

- a) Ovary
- b) Stigma
- c) Anther
- d) Style

Answer: c) Anther

10. Which process in cells releases energy from glucose?

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

Answer: b) Respiration

11. Organisms that make their own food are called?

- a) Heterotrophs
- b) Autotrophs
- c) Saprophytes
- d) Parasites

Answer: b) Autotrophs

12. Which biome is characterized by permafrost?

- a) Desert
- b) Tundra
- c) Rainforest
- d) Grassland

Answer: b) Tundra

13. Which gas contributes most to the modern greenhouse effect?

- a) Oxygen
- b) Carbon dioxide
- c) Nitrogen
- d) Hydrogen

Answer: b) Carbon dioxide

14. Relationship where both species benefit is?

- a) Parasitism
- b) Commensalism
- c) Mutualism
- d) Predation

Answer: c) Mutualism

15. Nitrogen fixation converts atmospheric N₂ into?

- a) Carbonates
- b) Nitrates/Ammonia
- c) Sulphates
- d) Phosphates

Answer: b) Nitrates/Ammonia

16. Which blood group is the universal donor?

- a) A
- b) B
- c) AB
- d) O

Answer: d) O

17. Which organ produces bile?

- a) Pancreas

- b) Liver
- c) Gall bladder
- d) Stomach

Answer: b) Liver

18. Deficiency of iodine causes?

- a) Rickets
- b) Goitre
- c) Scurvy
- d) Anaemia

Answer: b) Goitre

19. Which renal structure filters blood plasma?

- a) Loop of Henle
- b) Bowman's capsule
- c) Collecting duct
- d) Ureter

Answer: b) Bowman's capsule

20. Cells that defend against infection are?

- a) RBC
- b) WBC
- c) Platelets
- d) Chondrocytes

Answer: b) WBC

21. Who discovered the malaria parasite cycle in mosquitoes?

- a) Ronald Ross
- b) Har Gobind Khorana
- c) Alexander Fleming
- d) Louis Pasteur

Answer: a) Ronald Ross

22. Har Gobind Khorana's Nobel-recognized work was on?

- a) Photosynthesis
- b) Genetic code
- c) Antibiotics
- d) Vaccines

Answer: b) Genetic code

23. Pioneer of Oral Rehydration Therapy (ORT) in India?

- a) Y. Subbarow
- b) P. M. Bhargava
- c) Dilip Mahalanabis
- d) V. Ramakrishnan

Answer: c) Dilip Mahalanabis

24. Venkatraman Ramakrishnan won the Nobel for elucidating?

- a) DNA polymerase
- b) Ribosome structure
- c) Insulin synthesis
- d) Stem cells

Answer: b) Ribosome structure

25. Asian nation known for early mammalian cloning advances?

- a) Japan
- b) China
- c) India

d) South Korea

Answer: d) South Korea

26. Which organelle synthesizes proteins?

a) Ribosome

b) Lysosome

c) Vacuole

d) Golgi body

Answer: a) Ribosome

27. Which vitamin prevents rickets?

a) Vitamin A

b) Vitamin D

c) Vitamin C

d) Vitamin K

Answer: b) Vitamin D

28. Which enzyme breaks down starch in saliva?

a) Lipase

b) Amylase

c) Protease

d) Maltase

Answer: b) Amylase

29. Which vessel carries oxygenated blood from lungs to heart?

a) Pulmonary artery

b) Pulmonary vein

c) Aorta

d) Vena cava

Answer: b) Pulmonary vein

30. Hepatitis primarily affects which organ?

a) Kidney

b) Liver

c) Heart

d) Lungs

Answer: b) Liver

31. Which plant group commonly reproduces via spores?

a) Angiosperms

b) Gymnosperms

c) Ferns

d) Cacti

Answer: c) Ferns

32. Gas released during photosynthesis is?

a) CO₂

b) O₂

c) N₂

d) H₂

Answer: b) O₂

33. Component essential for blood clotting is?

a) Plasma

b) Platelets

c) RBC

d) WBC

Answer: b) Platelets

34. Part of brain controlling voluntary actions?

- a) Cerebrum
- b) Medulla
- c) Cerebellum
- d) Spinal cord

Answer: a) Cerebrum

35. Disease caused by Plasmodium is?

- a) Dengue
- b) Malaria
- c) Cholera
- d) Typhoid

Answer: b) Malaria

36. -Fight or flight- hormone is?

- a) Insulin
- b) Adrenaline
- c) Thyroxine
- d) Aldosterone

Answer: b) Adrenaline

37. Organelle that packages and ships proteins?

- a) Golgi apparatus
- b) Ribosome
- c) Nucleus
- d) Mitochondria

Answer: a) Golgi apparatus

38. Deficiency causing night blindness?

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

Answer: a) Vitamin A

39. Structure primarily absorbing water in plants is?

- a) Stem
- b) Root hairs
- c) Leaves
- d) Flowers

Answer: b) Root hairs

40. Which disease is viral?

- a) Tuberculosis
- b) Influenza
- c) Cholera
- d) Typhoid

Answer: b) Influenza

41. Organ secreting insulin?

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

Answer: b) Pancreas

42. Which process occurs in chloroplasts?

- a) Respiration

b) Photosynthesis

c) Transpiration

d) Fermentation

Answer: b) Photosynthesis

43. Universal recipient blood group?

a) A

b) B

c) AB

d) O

Answer: c) AB

44. Mineral crucial for bone health?

a) Iron

b) Calcium

c) Sodium

d) Potassium

Answer: b) Calcium

45. Main organ removing nitrogenous wastes?

a) Liver

b) Kidney

c) Lungs

d) Heart

Answer: b) Kidney

46. Plant tissue that transports sugars?

a) Xylem

b) Phloem

c) Cambium

d) Epidermis

Answer: b) Phloem

47. Who discovered penicillin?

a) Alexander Fleming

b) Louis Pasteur

c) Robert Koch

d) Edward Jenner

Answer: a) Alexander Fleming

48. Which structure is part of the respiratory system?

a) Trachea

b) Esophagus

c) Ureter

d) Pancreas

Answer: a) Trachea

49. Disease due to Vitamin C deficiency?

a) Scurvy

b) Rickets

c) Pellagra

d) Beriberi

Answer: a) Scurvy

50. Organelle absent in prokaryotes?

a) Nucleus

b) Ribosome

c) Cell membrane

Physical Sciences • 50 MCQs

Answer: a) Nucleus

1. Which state of matter has definite shape and volume?

- a) Solid
- b) Liquid
- c) Gas
- d) Plasma

Answer: a) Solid

2. Pressure of a gas inversely varies with volume at constant temperature. This is?

- a) Boyle's Law
- b) Charles' Law
- c) Avogadro's Law
- d) Dalton's Law

Answer: a) Boyle's Law

3. Which subatomic particle has no charge?

- a) Proton
- b) Electron
- c) Neutron
- d) Positron

Answer: c) Neutron

4. Most abundant element in Earth's crust?

- a) Oxygen
- b) Silicon
- c) Aluminum
- d) Iron

Answer: a) Oxygen

5. Bond formed by sharing electrons is?

- a) Ionic
- b) Covalent
- c) Metallic
- d) Hydrogen

Answer: b) Covalent

6. pH of a neutral aqueous solution at 25°C is?

- a) 0
- b) 3
- c) 7
- d) 10

Answer: c) 7

7. Which material is primarily a polymer of ethylene?

- a) PET
- b) PVC
- c) HDPE
- d) Nylon

Answer: c) HDPE

8. Which law relates current, voltage, and resistance?

- a) Faraday's Law
- b) Ohm's Law
- c) Ampere's Law
- d) Lenz's Law

Answer: b) Ohm's Law

9. Unit of force in SI is?

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

Answer: b) Newton

10. Energy stored due to position is called?

- a) Kinetic
- b) Potential
- c) Thermal
- d) Chemical

Answer: b) Potential

11. Which change is a physical change?

- a) Rusting
- b) Burning paper
- c) Melting ice
- d) Digestion

Answer: c) Melting ice

12. Which gas is used to fill incandescent bulbs?

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

Answer: b) Argon

13. The rate of doing work is measured in?

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

Answer: c) Watt

14. Which law of motion relates force to acceleration?

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

Answer: b) Newton's Second

15. A substance composed of only one type of atom is a?

- a) Compound
- b) Mixture
- c) Element
- d) Alloy

Answer: c) Element

16. Which property best distinguishes metals?

- a) Brittleness
- b) High conductivity
- c) Low density
- d) Transparency

Answer: b) High conductivity

17. Which temperature scale has absolute zero at 0?

- a) Celsius

- b) Fahrenheit
- c) Kelvin
- d) Rankine

Answer: c) Kelvin

18. Which process separates crude oil into fractions?

- a) Filtration
- b) Fractional distillation
- c) Chromatography
- d) Electrolysis

Answer: b) Fractional distillation

19. Which reaction type releases heat to surroundings?

- a) Endothermic
- b) Exothermic
- c) Neutralization
- d) Redox

Answer: b) Exothermic

20. Acceleration due to gravity near Earth's surface is approximately?

- a) 4.9 m/s^2
- b) 9.8 m/s^2
- c) 1 m/s^2
- d) 19.6 m/s^2

Answer: b) 9.8 m/s^2

21. Which device measures electric current?

- a) Voltmeter
- b) Ammeter
- c) Ohmmeter
- d) Barometer

Answer: b) Ammeter

22. Which phenomenon explains why a straw appears bent in water?

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

Answer: b) Refraction

23. Which quantity is conserved in all chemical reactions?

- a) Energy
- b) Mass
- c) Charge
- d) All of these

Answer: d) All of these

24. Which alloy is primarily copper and zinc?

- a) Bronze
- b) Brass
- c) Steel
- d) Duralumin

Answer: b) Brass

25. Which particle carries current in metals?

- a) Protons
- b) Ions
- c) Electrons

d) Neutrons

Answer: c) Electrons

26. SI unit of pressure is?

- a) Bar
- b) Atmosphere
- c) Pascal
- d) Torr

Answer: c) Pascal

27. Which gas causes the -pop- test in chemistry?

- a) Hydrogen
- b) Oxygen
- c) Carbon dioxide
- d) Nitrogen

Answer: a) Hydrogen

28. Which principle explains lift in airplane wings?

- a) Bernoulli's principle
- b) Archimedes' principle
- c) Pascal's principle
- d) Le Chatelier's principle

Answer: a) Bernoulli's principle

29. Which electromagnetic waves have the shortest wavelength?

- a) Radio
- b) Infrared
- c) X-rays
- d) Gamma rays

Answer: d) Gamma rays

30. Thermal energy transfer by direct contact is?

- a) Conduction
- b) Convection
- c) Radiation
- d) Evaporation

Answer: a) Conduction

31. Which battery type commonly uses lithium ions?

- a) Lead-acid
- b) Ni-Cd
- c) Li-ion
- d) Alkaline

Answer: c) Li-ion

32. Which chemical law states -fixed proportions- of elements in compounds?

- a) Law of multiple proportions
- b) Law of definite proportions
- c) Avogadro's law
- d) Gay-Lussac's law

Answer: b) Law of definite proportions

33. Which quantity is scalar?

- a) Velocity
- b) Displacement
- c) Force
- d) Speed

Answer: d) Speed

34. Which metal is liquid at room temperature?

- a) Mercury
- b) Gallium
- c) Cesium
- d) Sodium

Answer: a) Mercury

35. The heat required to raise temperature by 1°C per gram is?

- a) Latent heat
- b) Specific heat
- c) Heat capacity
- d) Enthalpy

Answer: b) Specific heat

36. Which instrument measures atmospheric pressure?

- a) Hygrometer
- b) Barometer
- c) Manometer
- d) Altimeter

Answer: b) Barometer

37. Which phenomenon explains the sky being blue?

- a) Rayleigh scattering
- b) Tyndall effect
- c) Mie scattering
- d) Dispersion

Answer: a) Rayleigh scattering

38. Work done when force is perpendicular to displacement is?

- a) Maximum
- b) Minimum
- c) Zero
- d) Negative

Answer: c) Zero

39. Which acid is present in vinegar?

- a) Formic acid
- b) Acetic acid
- c) Citric acid
- d) Sulfuric acid

Answer: b) Acetic acid

40. Which law explains buoyant force?

- a) Pascal's law
- b) Archimedes' principle
- c) Hooke's law
- d) Boyle's law

Answer: b) Archimedes' principle

41. Hooke's law relates force to?

- a) Area
- b) Charge
- c) Extension
- d) Velocity

Answer: c) Extension

42. Which semiconductor material is most common?

- a) Germanium

- b) Silicon
- c) Gallium arsenide
- d) Indium phosphide

Answer: b) Silicon

43. Which reaction involves electron transfer?

- a) Neutralization
- b) Precipitation
- c) Redox
- d) Hydrolysis

Answer: c) Redox

44. Which unit measures electrical energy consumption at home?

- a) Watt
- b) Kilowatt-hour
- c) Ampere-hour
- d) Joule

Answer: b) Kilowatt-hour

45. Which property describes resistance to flow in liquids?

- a) Viscosity
- b) Surface tension
- c) Capillarity
- d) Cohesion

Answer: a) Viscosity

46. Which Asian scientist formulated the Bose-Einstein statistics?

- a) C. V. Raman
- b) S. N. Bose
- c) Homi Bhabha
- d) Abdus Salam

Answer: b) S. N. Bose

47. Nobel Prize in Physics (1930) for scattering of light was awarded to?

- a) Abdus Salam
- b) C. V. Raman
- c) S. N. Bose
- d) H. Yukawa

Answer: b) C. V. Raman

48. Meson theory of nuclear forces was proposed by which Asian physicist?

- a) Homi Bhabha
- b) Hideki Yukawa
- c) S. Chandrasekhar
- d) Abdus Salam

Answer: b) Hideki Yukawa

49. Which law states pressure applied to a confined fluid is transmitted undiminished?

- a) Bernoulli's
- b) Archimedes'
- c) Pascal's
- d) Newton's

Answer: c) Pascal's

50. Which energy resource is renewable?

- a) Coal
- b) Natural gas
- c) Wind

d) Petroleum

Answer: c) Wind

51. Which term describes materials that strongly resist deformation and return to shape?

a) Plastic

b) Elastic

c) Ductile

d) Brittle

Answer: b) Elastic

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MCQ Practice Pack

Earth, Space & Environment · 50 Questions

Answers Included | No Diagrams

Earth, Space & Environment · 50 MCQs

1. Which layer of Earth contains tectonic plates?

- a) Crust
- b) Mantle
- c) Outer core
- d) Inner core

Answer: a) Crust

2. Which gas is most abundant in Earth's atmosphere?

- a) Oxygen
- b) Nitrogen
- c) Carbon dioxide
- d) Argon

Answer: b) Nitrogen

3. The process of water movement through plants and evaporation is called?

- a) Condensation
- b) Transpiration
- c) Precipitation
- d) Infiltration

Answer: b) Transpiration

4. Which type of rock is formed from cooled lava?

- a) Sedimentary
- b) Igneous
- c) Metamorphic
- d) Fossiliferous

Answer: b) Igneous

5. Which phenomenon causes day and night?

- a) Earth's revolution
- b) Earth's rotation
- c) Moon's rotation
- d) Sun's rotation

Answer: b) Earth's rotation

6. Which planet is known as the 'Red Planet'?

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

Answer: b) Mars

7. Which gas is responsible for ozone layer depletion?

- a) CO₂
- b) CFCs
- c) SO₂
- d) NO_x

Answer: b) CFCs

8. Which cycle describes movement of water on Earth?

- a) Carbon cycle
- b) Nitrogen cycle
- c) Water cycle
- d) Oxygen cycle

Answer: c) Water cycle

9. Which renewable resource is derived from sunlight?

- a) Wind energy
- b) Solar energy
- c) Geothermal energy
- d) Hydropower

Answer: b) Solar energy

10. Which layer of atmosphere contains the ozone layer?

- a) Troposphere
- b) Stratosphere
- c) Mesosphere
- d) Thermosphere

Answer: b) Stratosphere

11. Which planet has the largest number of moons?

- a) Earth
- b) Mars
- c) Jupiter
- d) Saturn

Answer: c) Jupiter

12. Which gas is a major contributor to global warming?

- a) Oxygen
- b) Carbon dioxide
- c) Nitrogen
- d) Helium

Answer: b) Carbon dioxide

13. Which process converts liquid water to vapor?

- a) Condensation
- b) Evaporation
- c) Precipitation
- d) Sublimation

Answer: b) Evaporation

14. Which term describes sustainable forest management?

- a) Deforestation
- b) Afforestation
- c) Desertification
- d) Urbanization

Answer: b) Afforestation

15. Which planet has rings around it?

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

Answer: c) Saturn

16. Which natural disaster is measured using the Richter scale?

- a) Cyclone
- b) Earthquake
- c) Flood
- d) Tornado

Answer: b) Earthquake

17. Which gas do plants absorb during photosynthesis?

- a) Oxygen
- b) Carbon dioxide
- c) Nitrogen
- d) Methane

Answer: b) Carbon dioxide

18. Which phenomenon causes seasons?

- a) Earth's rotation
- b) Earth's tilt and revolution
- c) Moon's orbit
- d) Solar flares

Answer: b) Earth's tilt and revolution

19. Which resource is non-renewable?

- a) Coal
- b) Wind
- c) Solar
- d) Hydropower

Answer: a) Coal

20. Which layer of Earth is liquid and generates magnetic field?

- a) Crust
- b) Mantle
- c) Outer core
- d) Inner core

Answer: c) Outer core

21. Which planet is closest to the Sun?

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

Answer: a) Mercury

22. Which gas is essential for respiration?

- a) Carbon dioxide

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

Answer: b) Oxygen

23. Which term refers to species disappearing forever?

- a) Migration
- b) Extinction
- c) Evolution
- d) Adaptation

Answer: b) Extinction

24. Which renewable energy uses moving air?

- a) Solar
- b) Wind
- c) Geothermal
- d) Biomass

Answer: b) Wind

25. Which layer of Earth is semi-solid and allows plate movement?

- a) Lithosphere
- b) Asthenosphere
- c) Mesosphere
- d) Core

Answer: b) Asthenosphere

26. Which planet has the Great Red Spot?

- a) Mars
- b) Jupiter
- c) Saturn
- d) Neptune

Answer: b) Jupiter

27. Which gas is used in fire extinguishers?

- a) Oxygen
- b) Carbon dioxide
- c) Nitrogen
- d) Helium

Answer: b) Carbon dioxide

28. Which term describes farming without harming environment?

- a) Organic farming
- b) Industrial farming
- c) Slash and burn
- d) Monoculture

Answer: a) Organic farming

29. Which phenomenon causes tides?

- a) Earth's rotation
- b) Moon's gravity

- c) Sun's heat
- d) Wind

Answer: b) Moon's gravity

30. Which planet is called Earth's twin?

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

Answer: b) Venus

31. Which layer of atmosphere is closest to Earth?

- a) Troposphere
- b) Stratosphere
- c) Mesosphere
- d) Thermosphere

Answer: a) Troposphere

32. Which process forms sedimentary rocks?

- a) Cooling
- b) Melting
- c) Deposition
- d) Crystallization

Answer: c) Deposition

33. Which term describes responsible use of resources?

- a) Overexploitation
- b) Conservation
- c) Pollution
- d) Deforestation

Answer: b) Conservation

34. Which planet has a day longer than its year?

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

Answer: b) Venus

35. Which gas is used in photosynthesis?

- a) Oxygen
- b) Carbon dioxide
- c) Nitrogen
- d) Methane

Answer: b) Carbon dioxide

36. Which phenomenon causes auroras?

- a) Solar wind interacting with magnetic field
- b) Earth's rotation
- c) Moon phases

d) Volcanic eruptions

Answer: a) Solar wind interacting with magnetic field

37. Which term describes melting of glaciers?

- a) Desertification
- b) Glacial retreat
- c) Afforestation
- d) Condensation

Answer: b) Glacial retreat

38. Which planet is known for its blue color due to methane?

- a) Neptune
- b) Uranus
- c) Saturn
- d) Jupiter

Answer: a) Neptune

39. Which cycle involves carbon exchange between organisms and atmosphere?

- a) Nitrogen cycle
- b) Carbon cycle
- c) Water cycle
- d) Oxygen cycle

Answer: b) Carbon cycle

40. Which phenomenon explains why sky appears blue?

- a) Reflection
- b) Refraction
- c) Rayleigh scattering
- d) Dispersion

Answer: c) Rayleigh scattering

41. Which term describes planting trees to restore forests?

- a) Deforestation
- b) Afforestation
- c) Urbanization
- d) Mining

Answer: b) Afforestation

42. Which planet has the fastest rotation?

- a) Earth
- b) Jupiter
- c) Mars
- d) Saturn

Answer: b) Jupiter

43. Which gas is a major component of acid rain?

- a) CO₂
- b) SO₂
- c) O₂
- d) CH₄

Answer: b) SO₂

44. Which layer protects Earth from harmful UV rays?

- a) Troposphere
- b) Ozone layer
- c) Mesosphere
- d) Thermosphere

Answer: b) Ozone layer

45. Which term describes energy from Earth's heat?

- a) Solar
- b) Geothermal
- c) Wind
- d) Hydro

Answer: b) Geothermal

46. Which planet has the highest mountain in the solar system?

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

Answer: b) Mars

47. Which process returns water to oceans via rivers?

- a) Runoff
- b) Evaporation
- c) Condensation
- d) Precipitation

Answer: a) Runoff

48. Which international agreement targets climate change?

- a) Kyoto Protocol
- b) Montreal Protocol
- c) Basel Convention
- d) Stockholm Convention

Answer: a) Kyoto Protocol

49. Which term describes species adapting to survive?

- a) Evolution
- b) Extinction
- c) Migration
- d) Pollination

Answer: a) Evolution

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MCQ Practice Pack

Current Affairs & Contemporary STEAM · 50 Questions

Answers Included | No Diagrams

Current Affairs & Contemporary STEAM • 50 MCQs

1. Which country launched the Artemis program for Moon missions?

- a) China
- b) USA
- c) India
- d) Japan

Answer: b) USA

2. Which Asian country launched Chandrayaan-3 in 2023?

- a) China
- b) India
- c) Japan
- d) South Korea

Answer: b) India

3. Which technology company introduced ChatGPT?

- a) Google
- b) OpenAI
- c) Microsoft
- d) Amazon

Answer: b) OpenAI

4. Which country hosted COP28 climate summit?

- a) India
- b) UAE
- c) USA
- d) UK

Answer: b) UAE

5. Which Asian country launched the XRISM space telescope?

- a) China
- b) Japan
- c) India
- d) South Korea

Answer: b) Japan

6. Which scientist won Nobel Prize in Physics 2023 for quantum dots?

- a) Pierre Agostini
- b) Ferenc Krausz
- c) Moungi Bawendi
- d) John Clauser

Answer: c) Moungi Bawendi

7. Which Asian country developed the fastest supercomputer in 2024?

- a) China
- b) Japan
- c) India
- d) South Korea

Answer: a) China

8. Which vaccine technology became prominent during COVID-19?

- a) mRNA
- b) DNA
- c) Protein subunit
- d) Live attenuated

Answer: a) mRNA

9. Which Asian country launched Aditya-L1 solar mission?

- a) China
- b) India
- c) Japan
- d) South Korea

Answer: b) India

10. Which tech company introduced Bard AI?

- a) Microsoft
- b) Google
- c) Amazon
- d) IBM

Answer: b) Google

11. Which country launched the James Webb Space Telescope?

- a) USA
- b) China
- c) India
- d) Japan

Answer: a) USA

12. Which Asian country announced Moon base plans for 2030?

- a) China
- b) India
- c) Japan
- d) South Korea

Answer: a) China

13. Which innovation won Nobel Prize in Chemistry 2023?

- a) CRISPR
- b) Quantum dots
- c) Lithium-ion batteries
- d) Polymer chemistry

Answer: b) Quantum dots

14. Which Asian country launched KSLV-II rocket?

- a) China
- b) Japan
- c) India
- d) South Korea

Answer: d) South Korea

15. Which country developed Starship rocket?

- a) USA
- b) China
- c) India
- d) Japan

Answer: a) USA

16. Which Asian country leads in electric vehicle production?

- a) India
- b) China
- c) Japan
- d) South Korea

Answer: b) China

17. Which country announced AI Act in 2024?

- a) USA
- b) EU
- c) India
- d) Japan

Answer: b) EU

18. Which Asian country launched Hakuto-R lunar lander?

- a) China
- b) Japan
- c) India
- d) South Korea

Answer: b) Japan

19. Which country launched Psyche mission to study asteroid?

- a) USA
- b) China
- c) India
- d) Japan

Answer: a) USA

20. Which Asian country developed humanoid robot Sophia?

- a) China
- b) Japan
- c) India
- d) Saudi Arabia

Answer: d) Saudi Arabia

21. Which country announced Mars Sample Return mission?

- a) USA
- b) China
- c) India
- d) Japan

Answer: a) USA

22. Which Asian country launched Tianzhou cargo spacecraft?

- a) China

- b) Japan
- c) India
- d) South Korea

Answer: a) China

23. Which country announced ban on single-use plastics by 2030?

- a) India
- b) USA
- c) China
- d) Japan

Answer: a) India

24. Which Asian country launched SLIM lunar lander?

- a) China
- b) Japan
- c) India
- d) South Korea

Answer: b) Japan

25. Which country developed CRISPR gene-editing technology?

- a) USA
- b) China
- c) India
- d) Japan

Answer: a) USA

26. Which Asian country launched Shenzhou-16 mission?

- a) China
- b) Japan
- c) India
- d) South Korea

Answer: a) China

27. Which country announced Green Hydrogen Mission in 2023?

- a) India
- b) USA
- c) China
- d) Japan

Answer: a) India

28. Which Asian country launched XRISM telescope in collaboration with NASA?

- a) China
- b) Japan
- c) India
- d) South Korea

Answer: b) Japan

29. Which country announced Artemis Accords for space cooperation?

- a) USA
- b) China

- c) India
- d) Japan

Answer: a) USA

30. Which Asian country launched lunar rover Rashid?

- a) India
- b) UAE
- c) Japan
- d) China

Answer: b) UAE

31. Which country announced AI-powered healthcare initiative in 2024?

- a) India
- b) USA
- c) China
- d) Japan

Answer: a) India

32. Which Asian country launched Queqiao relay satellite?

- a) China
- b) Japan
- c) India
- d) South Korea

Answer: a) China

33. Which country announced ban on petrol cars by 2035?

- a) USA
- b) EU
- c) India
- d) Japan

Answer: b) EU

34. Which Asian country launched Chandrayaan-3 successfully?

- a) China
- b) India
- c) Japan
- d) South Korea

Answer: b) India

35. Which country announced AI-powered education policy in 2024?

- a) India
- b) USA
- c) China
- d) Japan

Answer: a) India

36. Which Asian country launched Tianwen-2 asteroid mission?

- a) China
- b) Japan
- c) India

d) South Korea

Answer: a) China

37. Which country announced COP29 host city?

- a) India
- b) USA
- c) China
- d) Azerbaijan

Answer: d) Azerbaijan

38. Which Asian country launched reusable rocket Zhuque-2?

- a) China
- b) Japan
- c) India
- d) South Korea

Answer: a) China

39. Which country announced AI-powered judicial system in 2024?

- a) India
- b) USA
- c) China
- d) Japan

Answer: c) China

40. Which Asian country launched lunar mission OMOTENASHI?

- a) China
- b) Japan
- c) India
- d) South Korea

Answer: b) Japan

41. Which country announced global plastic treaty in 2024?

- a) India
- b) USA
- c) China
- d) UN

Answer: d) UN

42. Which Asian country launched space station Tiangong?

- a) China
- b) Japan
- c) India
- d) South Korea

Answer: a) China

43. Which country announced AI-powered agriculture policy in 2024?

- a) India
- b) USA
- c) China
- d) Japan

Answer: a) India

44. Which Asian country launched lunar mission Smart Lander?

- a) China
- b) Japan
- c) India
- d) South Korea

Answer: b) Japan

45. Which country announced AI-powered defense systems in 2024?

- a) India
- b) USA
- c) China
- d) Japan

Answer: c) China

46. Which Asian country launched Mars mission Hope?

- a) India
- b) UAE
- c) Japan
- d) China

Answer: b) UAE

47. Which country announced AI-powered traffic management in 2024?

- a) India
- b) USA
- c) China
- d) Japan

Answer: a) India

48. Which Asian country launched lunar mission Chang-e-6?

- a) China
- b) Japan
- c) India
- d) South Korea

Answer: a) China

49. Which country announced AI-powered disaster management system?

- a) India
- b) USA
- c) China
- d) Japan

Answer: a) India

50. Which Asian country launched space telescope ASTRO-H?

- a) China
- b) Japan
- c) India
- d) South Korea

Answer: b) Japan

South Asia STEM Quest 2025 · Senior Division

MCQ Practice Pack

Technology & Digital World · 50 Questions

Answers Included | No Diagrams

Technology & Digital World · 50 MCQs

1. Which number system is used by computers?

- a) Decimal
- b) Binary
- c) Octal
- d) Hexadecimal

Answer: b) Binary

2. Which protocol is used for secure web communication?

- a) HTTP
- b) FTP
- c) HTTPS
- d) SMTP

Answer: c) HTTPS

3. Which Asian country invented QR codes?

- a) China
- b) Japan
- c) India
- d) South Korea

Answer: b) Japan

4. Which device is considered the brain of a computer?

- a) Hard disk
- b) CPU
- c) RAM
- d) GPU

Answer: b) CPU

5. Which term refers to malicious software?

- a) Firewall
- b) Malware
- c) Cache
- d) Cookie

Answer: b) Malware

6. Which Asian tech company created Android OS?

- a) Samsung
- b) Google
- c) Huawei
- d) Sony

Answer: b) Google

7. Which protocol is used for email transfer?

- a) HTTP
- b) SMTP
- c) FTP
- d) IMAP

Answer: b) SMTP

8. Which Asian scientist pioneered fiber optics?

- a) Charles Kao
- b) C. V. Raman
- c) Homi Bhabha
- d) Abdus Salam

Answer: a) Charles Kao

9. Which term refers to converting data into unreadable form?

- a) Compression
- b) Encryption
- c) Decryption
- d) Hashing

Answer: b) Encryption

10. Which Asian country leads in semiconductor manufacturing?

- a) India
- b) Japan
- c) Taiwan
- d) China

Answer: c) Taiwan

11. Which technology powers cryptocurrency?

- a) Blockchain
- b) Cloud
- c) AI
- d) IoT

Answer: a) Blockchain

12. Which Asian company developed the first 5G chipset?

- a) Huawei
- b) Samsung
- c) Intel
- d) Sony

Answer: a) Huawei

13. Which term refers to a computer program that replicates itself?

- a) Virus
- b) Trojan
- c) Worm
- d) Spyware

Answer: c) Worm

14. Which Asian country launched the first AI news anchor?

- a) India
- b) China
- c) Japan
- d) South Korea

Answer: b) China

15. Which protocol is used for file transfer?

- a) FTP
- b) SMTP
- c) HTTP
- d) IMAP

Answer: a) FTP

16. Which Asian scientist contributed to wireless communication?

- a) Jagadish Chandra Bose
- b) C. V. Raman
- c) Homi Bhabha
- d) Abdus Salam

Answer: a) Jagadish Chandra Bose

17. Which term refers to temporary computer memory?

- a) ROM
- b) RAM
- c) Cache
- d) Register

Answer: b) RAM

18. Which Asian country developed humanoid robot ASIMO?

- a) China
- b) Japan
- c) India
- d) South Korea

Answer: b) Japan

19. Which technology enables virtual reality?

- a) Blockchain
- b) VR headset
- c) AI
- d) IoT

Answer: b) VR headset

20. Which Asian company created Tizen OS?

- a) Huawei
- b) Samsung
- c) Sony
- d) LG

Answer: b) Samsung

21. Which term refers to unsolicited emails?

- a) Spam
- b) Cache
- c) Cookie
- d) Malware

Answer: a) Spam

22. Which Asian country pioneered 6G research?

- a) China

- b) Japan
- c) India
- d) South Korea

Answer: d) South Korea

23. Which technology uses distributed ledger?

- a) Blockchain
- b) Cloud
- c) AI
- d) Big Data

Answer: a) Blockchain

24. Which Asian company developed PlayStation?

- a) Sony
- b) Samsung
- c) Huawei
- d) LG

Answer: a) Sony

25. Which term refers to unique device address on a network?

- a) IP address
- b) MAC address
- c) URL
- d) DNS

Answer: b) MAC address

26. Which Asian scientist contributed to computing algorithms?

- a) Raj Reddy
- b) C. V. Raman
- c) Homi Bhabha
- d) Abdus Salam

Answer: a) Raj Reddy

27. Which technology powers smart assistants?

- a) AI
- b) Blockchain
- c) IoT
- d) Cloud

Answer: a) AI

28. Which Asian country developed the first quantum computer prototype?

- a) China
- b) Japan
- c) India
- d) South Korea

Answer: a) China

29. Which term refers to software testing before release?

- a) Alpha testing
- b) Beta testing

- c) Unit testing
- d) Integration testing

Answer: b) Beta testing

30. Which Asian company created HarmonyOS?

- a) Huawei
- b) Samsung
- c) Sony
- d) LG

Answer: a) Huawei

31. Which technology enables IoT devices?

- a) Sensors
- b) Blockchain
- c) AI
- d) Cloud

Answer: a) Sensors

32. Which Asian country launched first 5G network?

- a) China
- b) Japan
- c) India
- d) South Korea

Answer: d) South Korea

33. Which term refers to a disguised malicious program?

- a) Trojan
- b) Worm
- c) Virus
- d) Spyware

Answer: a) Trojan

34. Which Asian scientist is known for AI research?

- a) Raj Reddy
- b) C. V. Raman
- c) Homi Bhabha
- d) Abdus Salam

Answer: a) Raj Reddy

35. Which technology uses machine learning?

- a) AI
- b) Blockchain
- c) IoT
- d) Cloud

Answer: a) AI

36. Which Asian company developed Bixby assistant?

- a) Huawei
- b) Samsung
- c) Sony

d) LG

Answer: b) Samsung

37. Which term refers to permanent storage in computers?

- a) RAM
- b) ROM
- c) Cache
- d) Register

Answer: b) ROM

38. Which Asian country leads in robotics innovation?

- a) China
- b) Japan
- c) India
- d) South Korea

Answer: b) Japan

39. Which technology enables cloud computing?

- a) Virtualization
- b) Blockchain
- c) AI
- d) IoT

Answer: a) Virtualization

40. Which Asian company created Xperia smartphones?

- a) Sony
- b) Samsung
- c) Huawei
- d) LG

Answer: a) Sony

41. Which term refers to a program that records keystrokes?

- a) Keylogger
- b) Trojan
- c) Spyware
- d) Worm

Answer: a) Keylogger

42. Which Asian country developed Sophia robot?

- a) China
- b) Japan
- c) India
- d) Saudi Arabia

Answer: d) Saudi Arabia

43. Which technology powers autonomous cars?

- a) AI
- b) Blockchain
- c) IoT
- d) Cloud

Answer: a) AI

44. Which Asian company developed Exynos chips?

- a) Huawei
- b) Samsung
- c) Sony
- d) LG

Answer: b) Samsung

45. Which term refers to a network attack flooding traffic?

- a) DDoS
- b) Phishing
- c) Spoofing
- d) Sniffing

Answer: a) DDoS

46. Which Asian scientist contributed to speech recognition?

- a) Raj Reddy
- b) C. V. Raman
- c) Homi Bhabha
- d) Abdus Salam

Answer: a) Raj Reddy

47. Which technology enables blockchain security?

- a) Cryptography
- b) AI
- c) IoT
- d) Cloud

Answer: a) Cryptography

48. Which Asian company created Walkman?

- a) Sony
- b) Samsung
- c) Huawei
- d) LG

Answer: a) Sony

49. Which term refers to software that steals data?

- a) Spyware
- b) Trojan
- c) Worm
- d) Virus

Answer: a) Spyware

50. Which Asian country developed Pepper robot?

- a) China
- b) Japan
- c) India
- d) South Korea

Answer: b) Japan

South Asia STEM Quest 2025 · Senior Division

MCQ Practice Pack

Arts & Design in STEAM · 50 Questions

Answers Included | No Diagrams

Arts & Design in STEAM • 50 MCQs

1. Which color combination is complementary?
 - a) Red and Green
 - b) Blue and Yellow
 - c) Orange and Purple
 - d) Black and White

Answer: a) Red and Green

2. Which principle of design refers to visual weight distribution?
 - a) Balance
 - b) Contrast
 - c) Harmony
 - d) Rhythm

Answer: a) Balance

3. Which term describes gradual change from one color to another?
 - a) Gradient
 - b) Hue
 - c) Tint
 - d) Shade

Answer: a) Gradient

4. Which Asian architectural wonder is known for symmetry?
 - a) Great Wall
 - b) Taj Mahal
 - c) Angkor Wat
 - d) Borobudur

Answer: b) Taj Mahal

5. Which primary colors mix to form green?
 - a) Red and Blue
 - b) Blue and Yellow
 - c) Yellow and Red
 - d) Black and White

Answer: b) Blue and Yellow

6. Which principle creates focus in design?
 - a) Emphasis
 - b) Unity
 - c) Proportion
 - d) Pattern

Answer: a) Emphasis

7. Which color scheme uses colors next to each other on the wheel?
 - a) Complementary
 - b) Analogous
 - c) Triadic
 - d) Monochromatic

Answer: b) Analogous

8. Which Asian artist is famous for calligraphy?

- a) Hokusai
- b) Zhang Daqian
- c) Raja Ravi Varma
- d) Takashi Murakami

Answer: b) Zhang Daqian

9. Which term refers to lightness or darkness of a color?

- a) Hue
- b) Tint
- c) Value
- d) Tone

Answer: c) Value

10. Which design principle deals with size relationships?

- a) Proportion
- b) Balance
- c) Contrast
- d) Unity

Answer: a) Proportion

11. Which Asian country pioneered origami art?

- a) China
- b) Japan
- c) India
- d) Thailand

Answer: b) Japan

12. Which color model is used in digital screens?

- a) CMYK
- b) RGB
- c) HSB
- d) Pantone

Answer: b) RGB

13. Which principle ensures all elements work together?

- a) Unity
- b) Contrast
- c) Balance
- d) Rhythm

Answer: a) Unity

14. Which Asian scientist integrated art in science education?

- a) Sir J. C. Bose
- b) C. V. Raman
- c) Homi Bhabha
- d) Abdus Salam

Answer: a) Sir J. C. Bose

15. Which term describes repeated decorative elements?

- a) Pattern
- b) Texture
- c) Contrast
- d) Harmony

Answer: a) Pattern

16. Which Asian monument is an example of Islamic architecture?

- a) Taj Mahal
- b) Borobudur
- c) Great Wall
- d) Petra

Answer: a) Taj Mahal

17. Which principle creates movement in design?

- a) Rhythm
- b) Balance
- c) Unity
- d) Proportion

Answer: a) Rhythm

18. Which color scheme uses one color with its shades?

- a) Monochromatic
- b) Analogous
- c) Complementary
- d) Triadic

Answer: a) Monochromatic

19. Which Asian artist is known for ukiyo-e prints?

- a) Hokusai
- b) Ravi Varma
- c) Takashi Murakami
- d) Ai Weiwei

Answer: a) Hokusai

20. Which term refers to surface quality in art?

- a) Texture
- b) Tone
- c) Hue
- d) Value

Answer: a) Texture

21. Which principle adds interest by difference?

- a) Contrast
- b) Unity
- c) Balance
- d) Pattern

Answer: a) Contrast

22. Which Asian innovation combines art and robotics?

- a) Origami robots

- b) 3D printing
- c) AI painting
- d) Digital calligraphy

Answer: a) Origami robots

23. Which term refers to color purity?

- a) Saturation
- b) Hue
- c) Tint
- d) Tone

Answer: a) Saturation

24. Which Asian structure is an example of Buddhist architecture?

- a) Borobudur
- b) Taj Mahal
- c) Petra
- d) Angkor Wat

Answer: a) Borobudur

25. Which principle ensures size harmony in design?

- a) Proportion
- b) Balance
- c) Rhythm
- d) Contrast

Answer: a) Proportion

26. Which Asian artist is known for modern pop art?

- a) Takashi Murakami
- b) Hokusai
- c) Ravi Varma
- d) Ai Weiwei

Answer: a) Takashi Murakami

27. Which term refers to arrangement of elements?

- a) Composition
- b) Texture
- c) Tone
- d) Pattern

Answer: a) Composition

28. Which color scheme uses three evenly spaced colors?

- a) Triadic
- b) Analogous
- c) Complementary
- d) Monochromatic

Answer: a) Triadic

29. Which Asian innovation uses art in medical imaging?

- a) 3D anatomical models
- b) Origami robots

- c) AI painting
- d) Digital calligraphy

Answer: a) 3D anatomical models

30. Which principle creates harmony through repetition?

- a) Rhythm
- b) Contrast
- c) Unity
- d) Balance

Answer: a) Rhythm

31. Which Asian monument is an example of Hindu architecture?

- a) Angkor Wat
- b) Taj Mahal
- c) Borobudur
- d) Petra

Answer: a) Angkor Wat

32. Which term refers to color opposite on wheel?

- a) Complementary
- b) Analogous
- c) Triadic
- d) Monochromatic

Answer: a) Complementary

33. Which Asian artist blended art with activism?

- a) Ai Weiwei
- b) Takashi Murakami
- c) Hokusai
- d) Ravi Varma

Answer: a) Ai Weiwei

34. Which principle creates visual stability?

- a) Balance
- b) Contrast
- c) Unity
- d) Pattern

Answer: a) Balance

35. Which Asian innovation uses design in prosthetics?

- a) 3D printed limbs
- b) Origami robots
- c) AI painting
- d) Digital calligraphy

Answer: a) 3D printed limbs

36. Which term refers to gradual color lightening?

- a) Tint
- b) Shade
- c) Tone

d) Hue

Answer: a) Tint

37. Which Asian monument is an example of Khmer architecture?

- a) Angkor Wat
- b) Borobudur
- c) Taj Mahal
- d) Petra

Answer: a) Angkor Wat

38. Which principle creates unity through similarity?

- a) Harmony
- b) Contrast
- c) Balance
- d) Pattern

Answer: a) Harmony

39. Which Asian artist is known for realistic paintings?

- a) Raja Ravi Varma
- b) Hokusai
- c) Takashi Murakami
- d) Ai Weiwei

Answer: a) Raja Ravi Varma

40. Which term refers to darkening a color?

- a) Shade
- b) Tint
- c) Tone
- d) Hue

Answer: a) Shade

41. Which Asian innovation combines art and AI?

- a) AI painting
- b) Origami robots
- c) 3D printing
- d) Digital calligraphy

Answer: a) AI painting

42. Which principle creates interest by size variation?

- a) Proportion
- b) Contrast
- c) Rhythm
- d) Unity

Answer: a) Proportion

43. Which Asian monument is an example of rock-cut architecture?

- a) Ajanta Caves
- b) Taj Mahal
- c) Borobudur
- d) Petra

Answer: a) Ajanta Caves

44. Which term refers to overall color feel?

- a) Tone
- b) Hue
- c) Tint
- d) Shade

Answer: a) Tone

45. Which Asian artist is known for blending tradition and modernity?

- a) Takashi Murakami
- b) Ai Weiwei
- c) Hokusai
- d) Ravi Varma

Answer: a) Takashi Murakami

46. Which principle creates emphasis using color?

- a) Contrast
- b) Unity
- c) Balance
- d) Rhythm

Answer: a) Contrast

47. Which Asian innovation uses design in education?

- a) STEAM kits
- b) Origami robots
- c) AI painting
- d) Digital calligraphy

Answer: a) STEAM kits

48. Which term refers to basic color property?

- a) Hue
- b) Tint
- c) Tone
- d) Shade

Answer: a) Hue

49. Which Asian monument is an example of Mughal architecture?

- a) Taj Mahal
- b) Borobudur
- c) Angkor Wat
- d) Petra

Answer: a) Taj Mahal

South Asia STEM Quest 2025 · Senior Division

MCQ Practice Pack

Scientific Inquiry & Innovation · 50 Questions

Answers Included | No Diagrams

Scientific Inquiry & Innovation • 50 MCQs

1. Which step comes first in the scientific method?

- a) Forming a hypothesis
- b) Observation
- c) Experimentation
- d) Conclusion

Answer: b) Observation

2. Which term refers to a testable explanation for a phenomenon?

- a) Theory
- b) Law
- c) Hypothesis
- d) Inference

Answer: c) Hypothesis

3. Which instrument is used to measure temperature accurately?

- a) Barometer
- b) Thermometer
- c) Hygrometer
- d) Manometer

Answer: b) Thermometer

4. Which variable is changed in an experiment?

- a) Dependent variable
- b) Independent variable
- c) Controlled variable
- d) Random variable

Answer: b) Independent variable

5. Which Asian scientist is known for Raman Effect?

- a) S. N. Bose
- b) C. V. Raman
- c) Homi Bhabha
- d) Abdus Salam

Answer: b) C. V. Raman

6. Which principle is used in chromatography?

- a) Density difference
- b) Solubility difference
- c) Magnetic property
- d) Conductivity

Answer: b) Solubility difference

7. Which tool is used for measuring very small lengths?

- a) Meter scale
- b) Vernier caliper
- c) Micrometer screw gauge
- d) Compass

Answer: c) Micrometer screw gauge

8. Which term describes repeating an experiment to verify results?

- a) Replication
- b) Validation
- c) Calibration
- d) Standardization

Answer: a) Replication

9. Which Asian scientist contributed to meson theory?

- a) Hideki Yukawa
- b) S. Chandrasekhar
- c) Homi Bhabha
- d) Meghnad Saha

Answer: a) Hideki Yukawa

10. Which branch of science deals with designing controlled experiments?

- a) Physics
- b) Experimental science
- c) Statistics
- d) Engineering

Answer: b) Experimental science

11. Which instrument measures atmospheric pressure?

- a) Barometer
- b) Hygrometer
- c) Anemometer
- d) Altimeter

Answer: a) Barometer

12. Which term refers to data collected during an experiment?

- a) Hypothesis
- b) Observation
- c) Inference
- d) Prediction

Answer: b) Observation

13. Which Asian scientist developed Bose-Einstein statistics?

- a) C. V. Raman
- b) S. N. Bose
- c) Homi Bhabha
- d) Abdus Salam

Answer: b) S. N. Bose

14. Which method is used to separate solids from liquids?

- a) Filtration
- b) Distillation
- c) Chromatography
- d) Evaporation

Answer: a) Filtration

15. Which term describes a well-tested explanation supported by evidence?

- a) Hypothesis
- b) Theory
- c) Law
- d) Prediction

Answer: b) Theory

16. Which instrument measures wind speed?

- a) Barometer
- b) Anemometer
- c) Hygrometer
- d) Manometer

Answer: b) Anemometer

17. Which Asian scientist predicted black holes?

- a) S. Chandrasekhar
- b) C. V. Raman
- c) Homi Bhabha
- d) Abdus Salam

Answer: a) S. Chandrasekhar

18. Which term refers to factors kept constant in an experiment?

- a) Independent variables
- b) Controlled variables
- c) Dependent variables
- d) Random variables

Answer: b) Controlled variables

19. Which technique is used to measure liquid volume accurately?

- a) Beaker
- b) Graduated cylinder
- c) Test tube
- d) Petri dish

Answer: b) Graduated cylinder

20. Which Asian scientist contributed to nuclear physics in India?

- a) Homi Bhabha
- b) C. V. Raman
- c) S. N. Bose
- d) Meghnad Saha

Answer: a) Homi Bhabha

21. Which instrument measures humidity?

- a) Hygrometer
- b) Barometer
- c) Anemometer
- d) Thermometer

Answer: a) Hygrometer

22. Which term describes drawing conclusions from observations?

- a) Inference

- b) Prediction
- c) Hypothesis
- d) Law

Answer: a) Inference

23. Which Asian scientist won Nobel Prize for electroweak theory?

- a) Abdus Salam
- b) S. N. Bose
- c) C. V. Raman
- d) Homi Bhabha

Answer: a) Abdus Salam

24. Which method separates liquids based on boiling points?

- a) Filtration
- b) Distillation
- c) Chromatography
- d) Evaporation

Answer: b) Distillation

25. Which instrument measures electric current?

- a) Voltmeter
- b) Ammeter
- c) Galvanometer
- d) Ohmmeter

Answer: b) Ammeter

26. Which Asian scientist developed the concept of cosmic rays?

- a) Meghnad Saha
- b) Homi Bhabha
- c) C. V. Raman
- d) S. N. Bose

Answer: b) Homi Bhabha

27. Which term refers to a statement predicting experimental outcome?

- a) Hypothesis
- b) Theory
- c) Law
- d) Observation

Answer: a) Hypothesis

28. Which instrument measures time intervals precisely?

- a) Stopwatch
- b) Clock
- c) Chronometer
- d) Timer

Answer: a) Stopwatch

29. Which Asian scientist formulated ionization theory?

- a) Meghnad Saha
- b) S. N. Bose

- c) C. V. Raman
- d) Homi Bhabha

Answer: a) Meghnad Saha

30. Which method is used to sterilize lab equipment?

- a) Filtration
- b) Autoclaving
- c) Distillation
- d) Evaporation

Answer: b) Autoclaving

31. Which instrument measures light intensity?

- a) Photometer
- b) Spectrometer
- c) Colorimeter
- d) Lux meter

Answer: d) Lux meter

32. Which Asian scientist contributed to quantum mechanics?

- a) S. N. Bose
- b) C. V. Raman
- c) Homi Bhabha
- d) Abdus Salam

Answer: a) S. N. Bose

33. Which term refers to numerical data analysis?

- a) Statistics
- b) Inference
- c) Observation
- d) Prediction

Answer: a) Statistics

34. Which instrument measures angles accurately?

- a) Protractor
- b) Clinometer
- c) Spectrometer
- d) All of these

Answer: d) All of these

35. Which Asian scientist developed Raman spectroscopy?

- a) C. V. Raman
- b) S. N. Bose
- c) Homi Bhabha
- d) Meghnad Saha

Answer: a) C. V. Raman

36. Which method separates pigments in ink?

- a) Filtration
- b) Chromatography
- c) Distillation

d) Evaporation

Answer: b) Chromatography

37. Which instrument measures mass?

- a) Balance
- b) Spring scale
- c) Manometer
- d) Barometer

Answer: a) Balance

38. Which Asian scientist worked on stellar evolution?

- a) S. Chandrasekhar
- b) C. V. Raman
- c) Homi Bhabha
- d) Abdus Salam

Answer: a) S. Chandrasekhar

39. Which term refers to repeating measurements for accuracy?

- a) Replication
- b) Calibration
- c) Validation
- d) Standardization

Answer: a) Replication

40. Which instrument measures voltage?

- a) Voltmeter
- b) Ammeter
- c) Galvanometer
- d) Ohmmeter

Answer: a) Voltmeter

41. Which Asian scientist contributed to particle physics?

- a) Abdus Salam
- b) S. N. Bose
- c) C. V. Raman
- d) Meghnad Saha

Answer: a) Abdus Salam

42. Which method is used to grow microbes in lab?

- a) Filtration
- b) Culture technique
- c) Distillation
- d) Evaporation

Answer: b) Culture technique

43. Which instrument measures density of liquids?

- a) Hydrometer
- b) Hygrometer
- c) Manometer
- d) Barometer

Answer: a) Hydrometer

44. Which Asian scientist predicted neutron stars?
- a) S. Chandrasekhar
 - b) C. V. Raman
 - c) Homi Bhabha
 - d) Abdus Salam

Answer: a) S. Chandrasekhar

45. Which term refers to graphical representation of data?
- a) Histogram
 - b) Inference
 - c) Observation
 - d) Prediction

Answer: a) Histogram

46. Which instrument measures sound intensity?
- a) Decibel meter
 - b) Photometer
 - c) Spectrometer
 - d) Lux meter

Answer: a) Decibel meter

47. Which Asian scientist contributed to cosmic ray research?
- a) Homi Bhabha
 - b) S. N. Bose
 - c) C. V. Raman
 - d) Meghnad Saha

Answer: a) Homi Bhabha

48. Which method is used to purify water in labs?
- a) Filtration
 - b) Distillation
 - c) Chromatography
 - d) Evaporation

Answer: b) Distillation

49. Which instrument measures refractive index?
- a) Refractometer
 - b) Spectrometer
 - c) Colorimeter
 - d) Photometer

Answer: a) Refractometer

50. Which Asian scientist developed theory of stellar structure?
- a) S. Chandrasekhar
 - b) C. V. Raman
 - c) Homi Bhabha
 - d) Abdus Salam

Answer: a) S. Chandrasekhar