



Minervaa International Scholarship Examinations

Sample Question Paper

Class- 6

Subject-Science

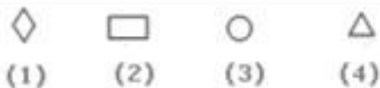


LOGICAL REASONING

1. Look at this series: 53, 53, 40, 40, 27, 27, ... What number should come next?

- a) 12 b) 14 c) 27 d) 53

2. 



- a) 1 b) 2 c) 3 d) 4

3. Decode the following: If DOG = EPI, CAT = ?

- a) DBU b) DBV c) DAU d) EBU

4. Which Venn diagram is best for:
Students, Girls, Athletes

- a) All inside each other
b) No overlapping
c) All overlap partially
d) Girls inside Students, Athletes outside

5. If in a code, A = 1, B = 2, ... Z = 26, what is the sum of the letters in the word SUN?

- a) 56 b) 57 c) 54 d) 59

SCIENCE

6. Which of the following is NOT a property of matter?

- a) Has mass
b) Occupies space
c) Produces sound
d) Can change state

7. Which of the following statements are correct about gases?

1. They have a definite shape
2. They have no fixed volume
3. They can be compressed easily
4. They occupy the entire space of a container

- a) 1 and 2 b) 2 and 3
c) 2, 3, and 4 d) All of the above

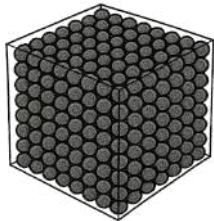
8. Match the type of matter with its description:

Type of Matter Description

- | | |
|-----------|---------------------------------------|
| 1. Solid | a) Flows and takes shape of container |
| 2. Liquid | b) Can be compressed easily |
| 3. Gas | c) Fixed shape and volume |

- a) 1-b, 2-c, 3-a
b) 1-c, 2-a, 3-b
c) 1-a, 2-b, 3-c
d) 1-c, 2-b, 3-a

9. Picture-based: Look at the image below. Which state of matter is shown in the container?



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

10. True or False: Solids can easily change their shape when moved from one container to another.

- a) True, because solids flow
b) False, because solids have fixed shape
c) True, because solids are compressible
d) False, because solids do not exist in nature

11. How many of the following are mixtures?

1. Lemonade
2. Distilled water
3. Steel
4. Tap water

- a) 1 b) 2 c) 3 d) 4

12. Match the following:

Substance Type

1. Oxygen a) Mixture

2. Soil b) Pure substance

3. Brass c) Mixture of metals

a) 1-b, 2-a, 3-c

b) 1-c, 2-b, 3-a

c) 1-a, 2-b, 3-c

d) 1-b, 2-c, 3-a

13. Picture-based:

Identify the type of substance from the image below.



a) Pure substance

b) Chemical compound

c) Mixture

d) Element

14. Which of these statements is INCORRECT about pure substances?

a) They have fixed composition

b) They cannot be separated by physical means

c) They are made up of different types of matter

d) They include elements and compounds

15. Which of the following are correct statements about air?

1. It has weight

2. It takes up space

3. It is invisible

4. It cannot move

a) 1, 2, and 3

b) 2 and 4

c) All of them

d) Only 1 and 4

16. Water changes into water vapor through a process called:

a) Condensation

b) Evaporation

c) Filtration

d) Distillation

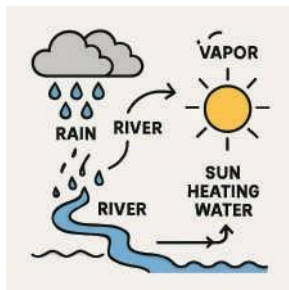
17. Match the method with its use:

Method	Use
1. Boiling	a) Removes germs
2. Sedimentation	b) Allows heavy particles to settle
3. Filtration	c) Removes solid impurities
4. Chlorination	d) Kills germs using a chemical

- a) 1-a, 2-b, 3-c, 4-d
- b) 1-d, 2-a, 3-b, 4-c
- c) 1-b, 2-a, 3-d, 4-c
- d) 1-c, 2-d, 3-a, 4-b

18. Picture-based:

Look at the image of water cycle and choose the correct sequence:



- a) Condensation → Collection → Evaporation → Precipitation
- b) Precipitation → Collection → Evaporation → Condensation
- c) Evaporation → Condensation → Collection → Precipitation
- d) Collection → Precipitation → Condensation → Evaporation

19. How many forms of water are naturally found on Earth?

- a) 1 b) 2 c) 3 d) 4

20. Which of these rocks is formed from molten magma?

- | | |
|----------------|------------|
| a) Sedimentary | b) Igneous |
| c) Metamorphic | d) Fossil |

21. Match the rock type with its formation process:

Rock Type	Formation Process
1. Igneous	a) Cooling of magma
2. Sedimentary	b) Layers of sediments
3. Metamorphic	c) Change by heat and pressure

- a) 1-a, 2-b, 3-c
- b) 1-b, 2-a, 3-c
- c) 1-c, 2-b, 3-a
- d) 1-a, 2-c, 3-b

22. How many of the following are correct uses of minerals?

1. Talc is used in powder
2. Gold is used in ornaments
3. Coal is used in jewellery
4. Iron is used in tools

a) 1 b) 2 c) 3 d) 4

23. Picture-based:

Identify the rock shown below:



- a) Marble b) Granite
c) Coal d) Limestone

24. What type of change is seen when iron rusts?

- a) Physical and reversible
- b) Physical and irreversible
- c) Chemical and reversible
- d) Chemical and irreversible

25. Match the change with its type:

Change Type

1. Melting wax a) Physical reversible
2. Baking a cake b) Chemical irreversible
3. Freezing water c) Physical reversible
4. Bursting cracker d) Chemical irreversible

- a) 1-a, 2-b, 3-c, 4-d
- b) 1-c, 2-b, 3-a, 4-d
- c) 1-c, 2-d, 3-a, 4-b
- d) 1-a, 2-c, 3-b, 4-d

26. Picture-based:

Which one shows a chemical change?



- a) a b) b c) c d) All of them

27. How many of these changes are chemical in nature?

1. Burning wood
2. Boiling milk
3. Ripening fruit
4. Cutting paper

a) 1 b) 2 c) 3 d) 4

28. Match the organism to its characteristic:

Organism Characteristic

- | | |
|--------------|----------------------------|
| 1. Cactus | a) Lives in water |
| 2. Fish | b) Stores water in stem |
| 3. Earthworm | c) Burrows into soil |
| 4. Frog | d) Lives on land and water |

- a) 1-a, 2-b, 3-c, 4-d
b) 1-b, 2-a, 3-c, 4-d
c) 1-c, 2-d, 3-a, 4-b
d) 1-d, 2-c, 3-b, 4-a

29. Picture-based:

What is the role of grass in this food chain?



- | | |
|---------------------|---------------|
| a) Primary consumer | b) Decomposer |
| c) Producer | d) Predator |

30. Which of the following statements are true?

1. Birds have hollow bones
2. Humans can regrow limbs
3. Plants need air to survive
4. Earthworms are insects

- | | |
|----------------|------------|
| a) 1 and 3 | b) 2 and 4 |
| c) All of them | d) Only 1 |

31. Match the group to its characteristic:

Group	Characteristic
1. Mammals	a) Cold-blooded with scales
2. Amphibians	b) Live on land and water
3. Reptiles	c) Warm-blooded with hair
4. Birds	d) Feathers and lay eggs

a) 1-c, 2-b, 3-a, 4-d

b) 1-b, 2-a, 3-c, 4-d

c) 1-d, 2-a, 3-b, 4-c

d) 1-a, 2-d, 3-b, 4-c

32. Which of these statements are true?

1. Bacteria are single-celled
2. All fungi can make their own food
3. Moss is a plant
4. Insects are mammals

a) 1 and 3

b) 2 and 4

c) All of them

d) None

33. Which is not a feature of mammals?

- a) Have hair or fur
- b) Give birth to young ones
- c) Lay eggs
- d) Produce milk

34. Which of the following pairs is incorrectly classified?

- a) Frog – Amphibian
- b) Whale – Mammal
- c) Penguin – Mammal
- d) Sparrow – Bird

35. Which diseases spread due to lack of hygiene?

1. Typhoid
2. Malaria
3. Jaundice
4. Asthma

a) 1 and 2

b) 1, 2 and 3

c) All four

d) Only 4

36. Match the term to its type:

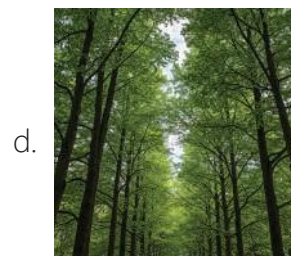
Term	Type
1. Air pollution	a) Non-renewable resource
2. Coal	b) Human activity
3. Recycle	c) Eco-friendly action
4. Deforestation	d) Environmental issue

Options:

- a) 1-d, 2-a, 3-c, 4-b
- b) 1-a, 2-d, 3-b, 4-c
- c) 1-c, 2-b, 3-a, 4-d
- d) 1-d, 2-c, 3-b, 4-a

37. Picture-based:

Which image shows a step to reduce pollution?



- a) a b) b c) c d) d

38. True/False with reasoning:

Plants give us oxygen, which helps us breathe.

- a) True – Through photosynthesis
- b) False – They need oxygen too
- c) True – But only during night
- d) False – Plants don't affect air

39. Which of the following statements are correct?

- 1. Reusing materials saves energy
- 2. Plastic is biodegradable
- 3. Wildlife conservation is important
- 4. Factories don't pollute

- a) 1 and 3 b) 2 and 4 c) All d) None

40. Which of the following materials allows light to pass through completely?

- a) Wood
- b) Frosted glass
- c) Clear glass
- d) Paper

41. Match the term to its property:

Term	Property
1. Shadow	a) Occurs in darkness
2. Transparent	b) No light passes
3. Opaque	c) Light passes fully
4. Translucent	d) Some light passes

Options:

- a) 1-a, 2-c, 3-b, 4-d
- b) 1-b, 2-d, 3-a, 4-c
- c) 1-c, 2-a, 3-b, 4-d
- d) 1-d, 2-b, 3-a, 4-c

42. How many of these are luminous objects?

- 1. Bulb
- 2. Mirror
- 3. Firefly
- 4. Book

- a) 1 b) 2 c) 3 d) 4

43. Which statement is false about light?

- a) It travels in a straight line
- b) It can bend around corners
- c) Shadows are formed when light is blocked
- d) Transparent objects don't cast dark shadows

44. Which two are needed to form a shadow?

- a) Light and transparent object
- b) Light and water
- c) Light and opaque object
- d) Light and sunlight

45. Match the object with the type of motion:

Object	Type of Motion
1. Clock hands	a) Linear motion
2. Car on a road	b) Circular motion
3. Fan blades	c) Rectilinear motion
4. Child on swing	d) Periodic motion

Options:

- a) 1-b, 2-c, 3-a, 4-d
- b) 1-b, 2-a, 3-b, 4-d
- c) 1-b, 2-a, 3-b, 4-d
- d) 1-a, 2-b, 3-d, 4-c

