

Question 1: A boy uses a ramp to push his toy car up instead of lifting it. Which simple machine is he using?

- a) Pulley
- b) Wedge
- c) Inclined plane
- d) Screw

Question 2: A robot is programmed to move forward 5 steps and then turn left. What will it do?

- a) Stay in the same place
- b) Move forward 5 steps, then change direction
- c) Only turn left
- d) Walk in circles

Question 3: An engineer builds a bridge with strong pillars. Why are pillars important?

- a) To decorate the bridge
- b) To carry the weight of the bridge
- c) To make the bridge colourful
- d) To stop vehicles

Question 4: A bulb glows when the switch is turned ON. Why does this happen?

- a) Because wires are broken
- b) Because the circuit is complete
- c) Because the bulb is empty
- d) Because air flows inside

Question 5: A student drops two balls of different sizes from the same height. What is she testing?

- a) Gravity
- b) Air pollution
- c) Magnetism
- d) Circuit flow

Question 6: Why do engineers design houses with sloping roofs in snowy areas?

- a) To look pretty
- b) To let snow slide off easily
- c) To make houses taller
- d) To stop rainbows

Question 7: A pulley helps to:

- a) Make objects heavier
- b) Change the direction of force
- c) Stop work completely
- d) Produce electricity

Question 8: If a robot vacuum cleaner senses dust and moves towards it, which concept is shown?

- a) Decoration
- b) Programming with sensors
- c) Soil erosion
- d) Recycling

Question 9: A builder uses triangles in roof design. Why?

- a) They are weak shapes
- b) They are strongest shapes for stability
- c) They look stylish
- d) They cost less

Question 10: When a torch doesn't glow, the problem may be:

- a) Circuit is broken
- b) Battery is missing
- c) Bulb is fused
- d) All of these

Question 11: A girl tests whether plants grow better in sunlight or shade. What is she doing?

- a) Cooking
- b) Scientific experiment
- c) Building structures
- d) Playing games

Question 12: Which of these is an example of environmental engineering?

- a) Designing mobile phones
- b) Creating machines to clean rivers
- c) Making clothes
- d) Playing music

Question 13: A screw is a simple machine because:

- a) It is used for fun
- b) It changes a small force into a stronger force
- c) It creates electricity
- d) It melts easily

Question 14: In programming, if a robot is told:

“Repeat moving forward 3 times,” what is this called?

- a) Condition
- b) Loop
- c) Bug
- d) Command break

Question 15: Why do tall buildings need deep foundations?

- a) To store water
- b) To keep them strong and balanced
- c) To save money
- d) To grow plants

Question 16: Electric wires are covered with plastic. Why?

- a) For decoration
- b) To prevent shocks
- c) To make wires heavy
- d) To produce more current

Question 17: A scientist observes clouds for 10 days to record rainfall. Which skill is he using?

- a) Guessing
- b) Jumping
- c) Observation
- d) Construction

Question 18: An engineer designs a water filter for villages. This is:

- a) Environmental engineering
- b) Astronomy
- c) Story writing
- d) Sports training

Question 19: Which simple machine is used in a see-saw?

- a) Pulley
- b) Wedge
- c) Screw
- d) Lever

Question 20: A child writes steps for making tea: boil water → add tea leaves → add milk → add sugar. What is this an example of?

- a) Programming sequence
- b) Weather pattern
- c) Magnetic force
- d) Decoration

Question 21: If bricks in a wall are not placed properly, the wall falls down. Why?

- a) No balance in design
- b) Too colourful
- c) Too many robots
- d) Air pushed it

Question 22: A circuit without a battery will:

- a) Glow brighter
- b) Not work
- c) Work faster
- d) Produce more sound

Question 23: A student mixes sand and water to see what happens. Which step of scientific inquiry is this?

- a) Making hypothesis
- b) Conclusion
- c) Observation and testing
- d) Result writing

Question 24: Why do engineers plant trees near factories?

- a) To reduce noise and pollution
- b) To decorate the road
- c) To stop buildings
- d) To attract robots

Question 25: A knife is which type of simple machine?

- a) Lever
- b) Wedge
- c) Pulley
- d) Wheel

Question 26: A robot moves forward when it senses light, but stops in darkness. What is being used?

- a) Solar panel
- b) Light sensor
- c) Gear
- d) Wheel

Question 27: A dome shape is often used in buildings because:

- a) It looks pretty
- b) It spreads weight evenly
- c) It makes houses colder
- d) It uses fewer robots

Question 28: In a circuit, electricity flows only when:

- a) It is closed
- b) It is broken
- c) The bulb is missing
- d) Wires are cut

Question 29: A girl wants to test which soil holds more water—sand or clay. What is she performing?

- a) Experiment
- b) Cooking
- c) Decoration
- d) Construction

Question 30: Which of these is not part of environmental engineering?

- a) Cleaning polluted rivers
- b) Building parks
- c) Recycling plastic
- d) Painting toys

Question 31: Which tool makes lifting heavy boxes easier?

- a) Screw
- b) Pulley
- c) Needle
- d) Wedge

Question 32: If a robot keeps turning in circles instead of going straight, what is the problem?

- a) Battery low
- b) Programming error (bug)
- c) Air pressure
- d) Magnetism

Question 33: Why do engineers test bridges with heavy weights before opening them?

- a) For fun
- b) To check strength and safety
- c) To waste materials
- d) To decorate

Question 34: Why should we never touch an electric wire with wet hands?

- a) It gives more light
- b) It saves energy
- c) It cleans our hands
- d) It can cause shocks

Question 35: A student thinks a heavier ball will fall faster than a lighter ball. What must she do?

- a) Write a story
- b) Test both balls by dropping them
- c) Ask a teacher only
- d) Guess the answer

Question 36: Engineers make solar panels to:

- a) Use energy from the Sun
- b) Make food
- c) Create rain
- d) Decorate houses

Question 37: Which simple machine is used in a door handle?

- a) Wheel and axle
- b) Lever
- c) Pulley
- d) Wedge

Question 38: A robot is told: “If obstacle is seen, turn right, else move forward.” This is an example of:

- a) Loop
- b) Condition
- c) Sequence
- d) Bug

Question 39: Why do builders use steel rods in tall buildings?

- a) To make them strong
- b) To save money
- c) To attract birds
- d) To stop rainfall

Question 40: What happens if you connect a bulb directly to a battery with wires?

- a) Bulb glows
- b) Bulb melts
- c) Circuit breaks
- d) Nothing happens

Question 41: A boy asks: “Does salt dissolve faster in hot or cold water?” He sets up an experiment. What is this called?

- a) Inquiry question
- b) Sports event
- c) Decoration
- d) Farming

Question 42: Which of these is designed to reduce air pollution?

- a) Chimneys with filters
- b) Bright lights
- c) Plastic bags
- d) Air conditioners

Question 43: A wheelbarrow is an example of:

- a) Pulley
- b) Lever
- c) Inclined plane
- d) Screw

Question 44: A robot dog responds to claps. Which programming concept is shown?

- a) Loop
- b) Condition
- c) Bug
- d) Sequence

Question 45: Why do engineers test materials like wood, steel, and plastic before building?

- a) To know their strength and use
- b) To waste time
- c) To make colours
- d) To confuse workers

Question 46: When a fan is switched on, what happens?

- a) Current flows in the circuit
- b) Wires break
- c) Air pollutes
- d) Bulb fuses

Question 47: A student wants to see how sunlight affects seed growth. Which step is the most important?

- a) Keep one seed in sunlight, one in dark
- b) Give both seeds same amount of water
- c) Compare after some days
- d) All of these

Question 48: Which engineering project helps save water in villages?

- a) Dams and rainwater harvesting
- b) Painting houses
- c) Building malls
- d) Planting only flowers

Question 49: A screwdriver is an example of:

- a) Wedge
- b) Lever
- c) Screw
- d) Pulley

Question 50: Why should engineers design eco-friendly cars?

- a) To increase pollution
- b) To save fuel and reduce air pollution
- c) To waste money
- d) To make cars heavier