

21

The Competition in

Science & Research Skills

***Science & Research
Test I & II
MODEL PAPERS***

Class : VI



Eduranet

Intellectual Olympiad Foundation

(Promoted by Eduranet Educational Society (Regd. 309/09))

Hyderabad | India

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SYLLABUS**I) Physics**

1. Motion & Measurement of Distances
2. Light
3. Electricity
4. Fun with magnets
5. Simple Machines

II) Chemistry

1. States of Matter
2. Fibre to Fabric
3. Classification of Materials
4. Techniques of Separation
5. Physical & Chemical Changes
6. Water
7. Air

III) Biology

1. Food And its Source
2. Components of Food
3. Plants and Their Types
4. Body Movements
5. Living Organisms and their Surroundings
6. Garbage & Their Disposal

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SCIENCE & RESEARCH TEST-I

CODE: 2161

PRELIMS

Max. Marks : 75

Duration : 75 Mins.

General Instructions :

1. Please find the Answer Sheets (OMR) with in the envelop given to you.
2. Mention your Test Code, Student ID, Name, Class, Section and School Name on the OMR Sheet as per Question Paper and Hall Ticket.
3. This question paper contains 75 Questions, duration is 75 minutes.
4. Do rough work in the empty sheet provided along with this question paper.
5. Answer questions in OMR sheet only.
6. Don't write or tick anything on the question paper.
7. Use only Black or Blue Ball Point Pen or Dark Pencil to answer the question in OMR sheet.
8. Indicate the correct answer by darkening one of the 4 or 5 responses provided.
9. Submit only OMR sheet to the invigilator.

1. The form of energy present in a wound spring is:

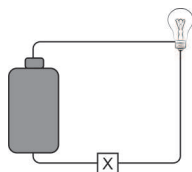
- | | |
|-------------|----------------|
| a) chemical | b) heat energy |
| c) magnetic | d) mechanical |

2. A chemical, when burned, produces energy if:

- a) The energy absorbed by reactants is more than the energy released by products
- b) the energy absorbed by reactants is less than the energy released by products
- c) the energy released by products is equal to energy absorbed by reactants
- d) it reacts with carbon dioxide

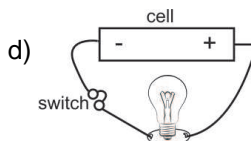
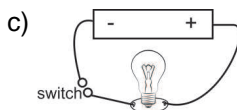
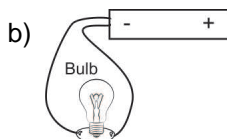
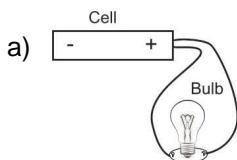
3. **What is the least amount of energy required by a man to lift an object weighing 1000 N to a height of 2m?**
a) 500 J b) 2000 N c) 500 N d) 2000 J
4. **A solid of volume 1 m³ is cut into pieces of volume 1 cm³ each. The number of pieces will be**
a) 1000 b) 10,000
c) 100,000 d) 10,00,000
5. **Study the following statements**
I. A metre scale can be used to measure length of curved surface
II. The number of grams in 1 quintal is 100,000
III. A hectare is a unit of measurement of volume.
IV. Volume of a liquid can be measured by knowing the capacity of container.
- Which of the given statements are correct?**
a) I and III only b) II and IV only
c) I and II only d) III and IV only
6. **In a pin hole camera, the image formed is**
a) erect b) inverted c) smaller d) larger
7. **Which type of motion(s) does the wheel of a running car has?**
a) Linear b) Circular
c) Periodic & circular d) Linear & circular
8. **What happens when lightening occurs?**
a) Light comes from sun to cloud
b) light comes from cloud to earth
c) Electric current flows in a atmosphere
d) Electric current flows from sun to cloud

13. In the given circuit tester diagram, what could X be if the bulb does not light up ?



- a) Iron nail
b) Copper coin
c) Aluminium rivet
d) Glass marble

14. Select the circuit in which a torch bulb will glow ?



15. Nidhi has two bulbs connected across two cells in a simple circuit. How can she make the bulbs glow dimmer?

- a) Replace one cell with a piece of chalk
b) Replace one cell with a piece of wire
c) Replace one bulb with a piece of wire
d) Replace one bulb with another cell

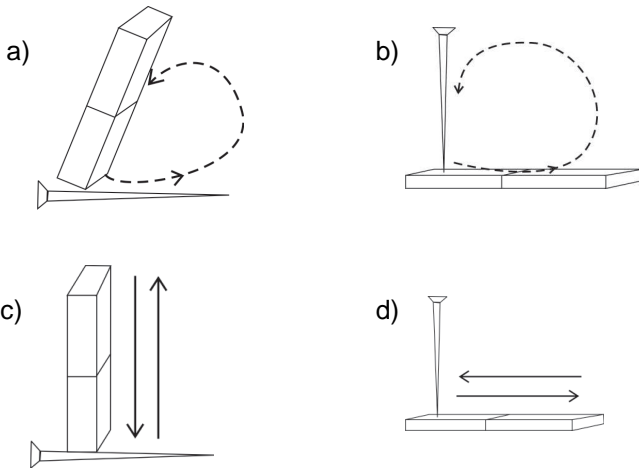
16. When the two terminals are connected directly with a wire then :

- a) more electrical energy is stored in the cell
b) the chemicals get used up very fast.
c) no current flows in the wire
d) none of these.

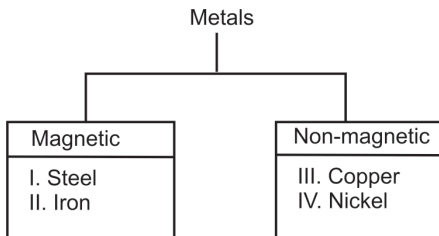
17. Soft iron pieces are placed across the ends of bar magnets when stored. Such pieces are called.

- a) preservatives
- b) keepers
- c) compasses
- d) poles

18. Which of the following is the correct way of making a magnet out of a nail ?

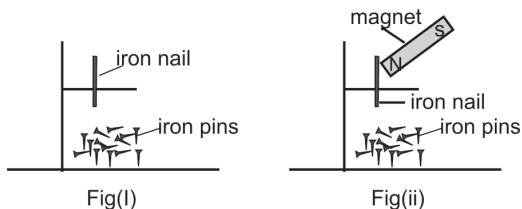


19. Study the chart. Which metal has been grouped incorrectly ?



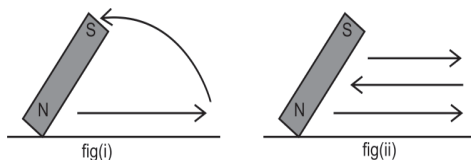
- a) I
- b) II
- c) III
- d) IV

20. Look at the figure showing iron pins being attracted towards nail i (ii) and tell which of the following is demonstrated by it?



- a) Pins get converted into artificial magnet in fig. (ii)
 b) Pins gets demagnetised in fig. (i)
 c) The iron nail becomes an artificial magnet in fig. (ii)
 d) None of the above occurs

21. The correct method of making an artificial magnet is



- a) as shown in fig. (i)
 b) as shown in fig. (ii)
 c) Both are correct
 d) None of these is correct
22. Which of the following actions is a combination of pulling and pushing forces?

- a) Squeezing toothpaste out of tube
 b) Twisting a rope
 c) Closing a door
 d) Typing a letter

23. Look at the given set of gears. Which of the following statements is correct ?



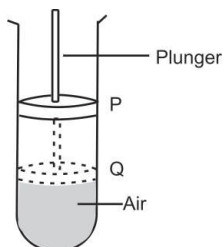
- a) Gears A and C move in opposite direction.
 - b) Gears A and B move in same direction.
 - c) Gear B rotates faster than gear A
 - d) Gear C rotates faster than gear A
24. In a pair of scissor, the i is between ii . Which information completes the given statement?

- a) i - Fulcrum, ii - effort and load
 - b) i - Effort, ii- fulcrum and load
 - c) i - Load, ii - effort and fulcrum
 - d) i - Load, ii - fulcrum and load
25. Which of the following represents correct example of first, second and third class levers ?

	First Class lever	Second Class lever	Third class lever
I.	Scissors,	Wheel barrow	Broom
II.	Ice tongs	Tweezer	Paper cutter
III.	Pliers	Nut cracker	Fishing rod

- a) I and II only
- b) II and III only
- c) I and III only
- d) I, II and III only

26. In the given figure, air is compressed when the plunger moves from P to Q.



- a) Has no definite volume
b) Has particles that are compressible
c) Has particles of negligible mass
d) Has particles that are constantly moving
27. Which of the following consists of two different types of atoms?
- I. Silver II. Zinc III. Ice IV. Dry ice
- a) I and II only
b) II and III only
c) III and IV only
d) IV and I only
28. Which of the following is a water soluble material?
- a) Nitrogen
b) Blue Vitriol
c) Milk
d) Saffron

29. Match column-I with Column-II and select the correct answer using the code given below the columns.

Column-I(Objects)	Column-II(Property)
(A) Aluminum (B) Sand (C) Glass (D) Oiled paper	(p) Transparent (q) Translucent (r) Dull appearance (s) Shiny appearance

a) $A \rightarrow (p); B \rightarrow (q); C \rightarrow (r); D \rightarrow (s)$

b) $A \rightarrow (q); B \rightarrow (r); C \rightarrow (s); D \rightarrow (p)$

c) $A \rightarrow (r); B \rightarrow (q); C \rightarrow (s); D \rightarrow (p)$

d) $A \rightarrow (s); B \rightarrow (r); C \rightarrow (p); D \rightarrow (q)$

30. Select the one that is different from others

- a) PVC pipe b) GI pipe
c) Basket made of plastic d) Plastic toy

31. Bleaching and dyeing are usually done

- a) Just before the fabrics are made
b) After the fabrics are made
c) Before the yarns are made
d) After the yarns are made

32. Why in the process of spinning cotton fibres are twisted?

- a) Cotton fibres are twisted to bring the fibres together to form fabric.
b) Cotton fibres are twisted to bring the fibres together to form yarn.
c) Cotton fibres are pulled to make a fabric
d) Cotton fibres are pulled to make a fabric

33. In the process of knitting the number of yarns used is ____
- a) 1 b) 2
c) either one or two d) None of these
34. 1 kg of iron occupies less space compared to 1 kg of sponge. Why?
- a) Iron has less density than sponge
b) Iron and sponge have equal densities
c) Iron has more density than sponge
d) None of the above
35. A material 'X' is flexible but sometimes it is not. It can float but sometimes it sinks. The material 'X' is
- a) Rock b) Plastic
c) Ceramic d) Glass
36. An electric iron is made up of a combination of
- I. Plastic II.Metal III. Glass

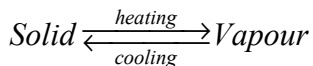


- a) I only b) II only
c) I and II only d) II and III only
37. You can use decantation to separate:
- a) two miscible liquids
b) two immiscible liquids
c) two metals in an alloy
d) solid-solid mixture

38. Iodine, camphor, ammonium chloride and naphthalene. Name the property that is common to all these substance.

- a) Equal densities b) Sublimation property
c) Equal melting points d) pure homogeneous mixtures

39. Study the given equation :-



The process shown above is -

- a) Fractional distillation b) Sedimentation
c) Sublimation d) Coagulation

40. A saturated solution of a substance was obtained by dissolving 8 g of the solute in 100ml of solution. The solubility of this substance is (in g/100 ml)

- a) 2 b) 4 c) 6 d) 8

41. In a certain change, colour and the magnetic properties of a substance changed. What reaction might this be?

- a) Chemical combination b) Photochemical reactions
c) irreversible reaction d) Physical change

42. The weight of dried residue obtained by heating 100 ml of a saturated solution of salt was found to be 7 g. It shows that the solubility of salt in water is (in g/ 100 ml)

- a) 7 b) 5
c) 6 d) can't predict

43. Lightning is a i. and ii. change

- a) i- fast; ii-physical b) i- fast; ii-chemical
c) i-slow; ii-reversible d) i-slow; ii-irreversible

44. Study the given chemical changes.

- I. Formation of clouds
- II. Formation of oxides of nitrogen during lightning
- III. Burning of rocket fuel in a rocket

Which of the these are chemical changes?

- a) Only I and II
- b) Only II and III
- c) Only I and III
- d) All the above are chemical changes

45. Which of following statements is true?

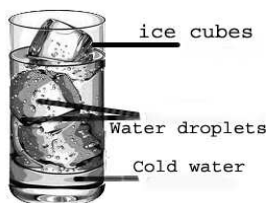
- a) The salinity of rivers increase with time
- b) The salinity of rivers decrease with time
- c) The salinity of seas increase with time
- d) The salinity of seas decrease with time

46. In a cloud, the size of the droplets causing rainfall because they become

Which information completes the given statement?

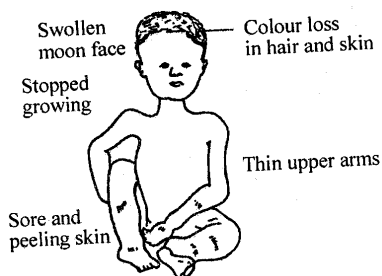
- a) i- Increases, ii- heavier
- b) i- Increases, ii- lighter
- c) i- Decreases, ii-heavier
- d) i- Decreases, ii- lighter

47. Kafil observed water droplets on the outside of a glass of cold water. The water droplets come from

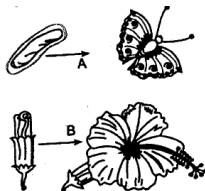


- a) The water vapour in the air
b) The cold glass surface
c) The ice cubes in the glass
d) The cold water in the glass
48. Which of the following statements is correct for nitrogen gas?
- a) It supports combustion
b) It burns itself.
c) It regulates burning in atmosphere.
d) It is harmful.
49. When we heat water, we can find bubbles coming from it. This shows that:
- a) water contains air
b) air contains water
c) hot water becomes bubbles
d) none of these
50. The humidity of a place :
- a) lies between 10% - 20% b) is always more than 50%
c) is always less than 80% d) varies from time to time

51. The child in the given figure is suffering from a deficiency disease. This disease is caused due to deficiency of



- a) carbohydrates b) proteins
c) fats d) vitamins
52. How many grams of copper sulphate be dissolved in 100 ml of water to prepare copper sulphate solution for testing the presence of proteins in a food item?
a) 1 b) 2 c) 3 d) 4
53. The fat soluble vitamins are
a) vitamin B and vitamin C
b) vitamin A, vitamin D, vitamin E
c) vitamin A and vitamin B
d) none of the above
54. Observe the diagrams and find the most correct statement.

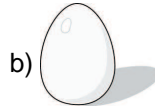
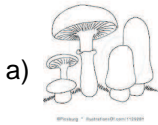


- a) Both A & B are the examples of artificial & irreversible change
b) Both A & B are the examples of natural & reversible change
c) Both A & B are examples of artificial & reversible change
d) Both A & B are example of natural & irreversible change

55. In gram dal which food constituent is found the most?

- a) Fats
- b) Carbohydrates
- c) Proteins
- d) Vitamins

56. Which of the following is a rich source of Vitamin A?

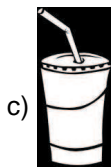
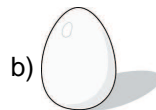


d) None of these

57. Deficiency of calcium results in :

- a) tooth decay
- b) weak muscles
- c) loss of vision
- d) bleeding of gums

58. Which of the following contain zero value calories?

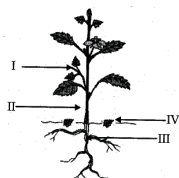


Soft drinks

59. Separation of seeds from cotton bolls is called :

- a) winnowing
- b) threading
- c) ginning
- d) spinning

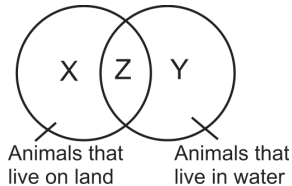
60. Jute fibre is obtained from the _____ of jute plant.
- a) leaves b) seeds
c) roots d) stem
61. Flax is a/an:
- a) animal b) synthetic fibre
c) plant d) fabric
62. Which of the following has fibrous root system?
- a) Grass b) Maize
c) Spinach d) Mustard
63. A stem grows from the _____ of the seed.
- a) bud b) axil
c) plumule d) vegetative bud
64. The sticky, terminal part of the pistil is called:
- a) stigma b) ovary
c) ovule d) style
65. In which of the following habitats, the animals can move fast?
- a) Grassland b) Mountain
c) Desert d) Forest
66. The given figure illustrates a plant structure. Which labelled parts of the tree is not alive?



- a) I b) II c) III d) IV

67. Study the given venn diagram.

Which of the following animals can be placed in group Z.



- a) Bird b) Frog c) Shark d) Dog

68. The part marked 'A' in the figure of cucumber plant is called



- a) prop root b) tendril c) climber d) petiole

69. Which of the following statements is incorrect ?

- a) The body of earthworm is made up of many rings joined end to end.
 b) Outer skeleton of snail is called shell.
 c) Pivotal joint allow us to bend our head forward and backward
 d) None of these

70. Which of the following is a genetic disease?

- a) Sickle cell anaemia
 b) Tuberculosis
 c) Severe Acute Respiratory Syndrome
 d) Acquired Immuno Deficiency Syndrome

71. Outer layers of our skin is made up of dead cells which contain a protein called :

- a) globin b) serotonin c) valine d) keratin

72. Pupil is :

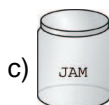
- a) the transparent covering which protects our eyes
b) the tissue made of cells that are sensitive to different colours of the objects we see
c) the opening through which the light reflected from the objects enters our eyes
d) the nerve that carries the signals from eyes to the optical cortex of the brain

73. Study the items classified in the table given alongside. On what basis have the above items been classified ?

X	Y
Leftover Food	Plastic cup
Newspaper	Glass bottle
Vegetable peels	Aluminium cans

- a) X-Biodegradable, Y-Non-biodegradable
b) X-Non-cyclable, Y-Cyclable
c) X-Cause land pollution, Y-Do not cause land pollution
d) X-Less toxic, Y-More toxic

74. Which of the following contains preservatives in it ?



75. Land fills are most commonly used method of soil waste disposal. Which is the best place for landfill in a city?

- a) The centre of city b) Outside the city
c) Near a hospital d) Near a park

KEY TO MODEL PAPER - I

- | | | | | | |
|-------|-------|-------|-------|-------|-------|
| 1. d | 2. a | 3. d | 4. d | 5. b | 6. b |
| 7. d | 8. c | 9. c | 10. c | 11. a | 12. c |
| 13. d | 14. d | 15. b | 16. b | 17. b | 18. a |
| 19. d | 20. c | 21. a | 22. b | 23. d | 24. a |
| 25. c | 26. a | 27. c | 28. b | 29. d | 30. b |
| 31. b | 32. b | 33. a | 34. c | 35. b | 36. c |
| 37. b | 38. b | 39. c | 40. d | 41. d | 42. a |
| 43. b | 44. b | 45. c | 46. a | 47. a | 48. c |
| 49. a | 50. d | 51. b | 52. b | 53. b | 54. d |
| 55. c | 56. b | 57. a | 58. c | 59. c | 60. d |
| 61. c | 62. a | 63. c | 64. a | 65. a | 66. d |
| 67. b | 68. b | 69. d | 70. a | 71. d | 72. c |
| 73. a | 74. c | 75. b | | | |

SCIENCE & RESEARCH TEST-II

CODE:2162

FINALS

Max. Marks : 40

Duration : 60 Mins.

General Instructions :

1. Please find the separate Answer Sheets along with the question paper.
2. Mention your Test Code, Student ID, Name, Class, Section, Contact no. and School Name on the Answer Sheet as per Question Paper and Hall Ticket.
3. This question paper contains V sections, duration is 60 minutes.
4. Please read the instructions carefully before attempting the question.
5. Answer questions in Answer Sheet only.
6. Don't write or tick anything on the question paper.
7. Use only Black or Blue Ball Point Pen to answer the question in Answer Sheet.
8. Submit only answer sheet(s) to the invigilator.

SECTION - I

10 × 1 = 10m

DIRECTIONS: (1 -10) – Each question contains statements given in two columns which have to be matched. Statements in column A have to be matched with statements in column B and write in the answer sheet.

Column A

1. Objects which emit their own light
2. Straight line motion of light
3. Lunar eclipse occurs on
4. Solar eclipse occurs on

Column B

- A) Full moon light
- B) Luminous
- C) New moon light
- D) Rectilinear propagation of light

- | | |
|---|-------------------------|
| 5. Materials that reflect all light | E) Periodic event |
| 6. A type of light scattering | F) Transparent |
| 7. Materials that transmits most of the light | G) Translucent |
| 8. Materials that, transmits some light | H) Opaque |
| 9. An image of a mirror | I) Regular reflection |
| 10. Time | J) Diffuse reflection |
| | K) Non Periodic event |
| | L) Irregular reflection |

SECTION - II**10 × 1 = 10m**

DIRECTIONS : (11- 20) – Read the following statements and write your answer as true or false with reasons or solutions in the answer sheet.

11. An element can sometimes have two different types of atoms.
12. Silk is the strongest of all natural fibres.
13. Most gases are partially miscible with water.
14. Electric current can flow through metals.
15. Compass needle is nothing but a small magnet.
16. Scavengers are special type of carnivores that only eat dead animals.
17. Vitamins A,D,E and K are water soluble vitamins.
18. Sepal is the outermost whorl of the flower.
19. Brain controls our body movements.
20. Tendrils are found in cactus.

SECTION - III**10 × 1 = 10m**

DIRECTIONS: (21 - 30) – Complete the following statements with an appropriate word/term to be written in the answer sheet.

21. Kelvin is a unit of _____.

22. The filament of bulb is made of _____.
23. _____ an alloy of aluminium, nickel and cobalt, is commonly used to make magnets.
24. Souring of milk is a _____ Change.
25. The method of separation of constituents depend upon their _____.
26. The smallest unit of a chemical compound is _____.
27. _____ is the cheapest and most extensively used natural fibre.
28. Movement is brought about by contraction and relaxation of _____.
29. An organism's reaction to a stimulus is called a _____.
30. _____ are vast areas where grasses grow in abundance.

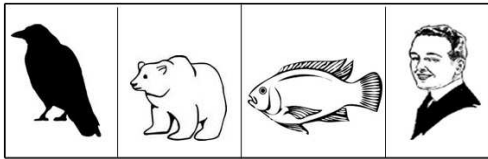
SECTION - IV**10 × 1 = 10m**

DIRECTIONS : (31 - 40) – Identify the correct answer from the given options and write in the answer sheet.

31. Which of the following is not in periodic motion?
 - a) A fan moving at constant speed
 - b) A swinging pendulum
 - c) Rotation of earth
 - d) A flying kite
32. Study the following statements.
 - I. Moon is a luminous body
 - II. An object that does not emit light is called non - luminous body.
 - III. Translucent bodies do not cast shadows.
 - IV. A ray of light is the path along which light travels.Which of the given statements are correct?
 - a) I and II
 - b) II and III
 - c) I and IV
 - d) II and IV

33. Which of the following does not contain a magnet in it?
- a) Torch
b) Radio
c) Fan
d) both b and c
34. In which of the following class of levers distance moved by load is greater than distance moved by the effort?
- a) First class lever
b) Second class lever
c) Third class lever
d) Both first and second class lever
35. Sonia threw an object into the ground while standing on a chair to see if it will break. Which property of the material is Sonia trying to test?
- a) Flexibility
b) Strength
c) Hardness
d) Ability to float
36. Study the given statements-
- I. Formation of water from hydrogen and oxygen is a physical change.
- II. The bursting of a cracker is a fast chemical change.
- III. Bending of a wire is only a change in its size.
- Which of the above stated statement is correct?
- a) Only I
b) Only II
c) Only I and II
d) Only II and III
37. Sneha boiled a pot of water. When water boils, there will be a change in its
- a) Temperature only.
b) Temperature and state only.
c) State and colour only.
d) Temperature, state and colour only.

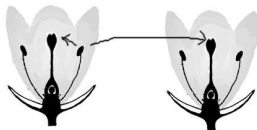
38. The given figure illustrates various kind of animals. How many omnivores are there in the given figure?



- a) 1 b) 2 c) 3 d) 4
39. Study the given statements below.
- 1) Plant absorb their food from soil only.
 - 2) Plants utilize the energy from Sun and store it as starch.
 - 3) Animals can survive without plants but plants cannot survive without animals.

Which of the given statements is/are correct ?

- a) Only statement (1) is correct
 - b) Only statement (2) is correct
 - c) Statements (1) and (2) are correct
 - d) Statements (2) and (3) are correct
40. Which process is illustrated in given figure?



- a) Fertilization
- b) Pollination
- c) Photosynthesis
- d) Transpiration

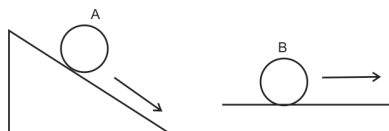
SECTION - V

10 × 2 = 20m

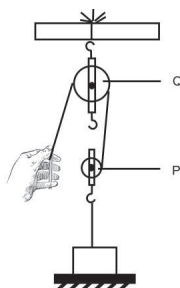
Answer the following Questions (41 - 50)

(Concept, Application, Skill based Questions)

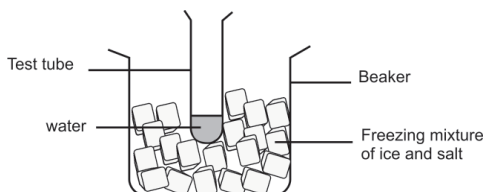
41. Two balls A and B are moving on slope and flat road respectively. How can you differentiate the motions of the two balls.



42. Does the shadow of moving train move at the same speed? Give reason.
43. Why should we not heat or hammer a magnet?
44. Sohan used a combined pulley system to lift a load, as shown in figure.
- What type of pulley are p and Q.
 - Differentiate P from Q.



45. Sanjana performed an activity. She placed a test tube of water in a beaker of salt and ice . What happened to water in the test tube after few minutes



46. It is difficult to hold a steel glass containing hot tea. Why?
47. Study the articles given in the box below and group them into three categories - Plant source, animals source and synthetic.

Cotton	Terylene	Silk
Rayon	Wool	Jute
Polyster	Flax	Fur

48. After heavy thunderstorm and strong winds, some trees in the park stood firm. Why didn't these trees fall to the ground? Give reason.
49. In an activity, a plant and a statue is put into a box with a gap as shown in the diagram. It was found that the plant bends towards the gap where more light is present while there was no change in the statue. What does this experiment prove?



50. Organisms found in a particular habitat have changed or adapted themselves to survive there. Find out the meaning of the following term and explain with example, how these adaptations have helped the organisms to adapt their habitat.
- A. Hibernation B. Migration C. Camouflage

SOLUTIONS TO MODEL PAPER - II**SECTION – I****Match the Following**

- 1) → B; 2) → D; 3) → A; 4) → C;
5) → H; 6) → J; 7) → F; 8) → G;
9) → I; 10) → E;

SECTION – II**True / False**

11. False 12. True 13. True 14. True
15. True 16. True 17. False 18. True
19. True 20. False

SECTION – III**Fill in the Blanks**

21. Temperature 22. tungsten 23. Alnico
24. chemical 25. properties 26. molecule
27. cotton 28. muscles 29. Response
30. Grass land

SECTION – IV**Multiple Choice Questions**

31. d 32. d 33. a 34. c
35. b 36. b 37. b 38. c
39. b 40. b

SECTION – V**Answer the following questions**

41. Ball A has both rotational and translational motion. but ball B has only translational motion

42. Yes, train is an opaque object and cast a shadow where ever it goes. Thus the shadow moves with the train and with the same speed.
43. A magnet loses its magnetic property on heating harmneting. Therefore
44. P is movable pulley,Q is fixed pully

Movable**Fixed**

- | | |
|--|---|
| 1. It enables less force with less effort to over come a heavy load. | 1. It does not reduce effort |
| 2. It moves with the load. | 2. It is fixed to a support |
| 3. It does not change the direction of effort | 3. It changes the direction of effort |
| 4. Effort moves greater distance than the load | 4. Load and effort move the same distance |
45. The water in the test tube froze.
46. Because steel is a good conductor of heat, and conducts heat to out hand
47. Plant source -cotton, jute, flax. Synthetic - Terylene, Polyester, Rayon. Animal source -silk, wool, fur
48. The roots of a tree hold the tree firmly to the ground Hence ...
49. This shows that plants respond to stimuli,hence living thing. statue non living.
50. Hibernation:- The period of reduced activity in some animals during winter months is known as hibernation. The animal such as frog, squirrel, bear etc reduce the their activities during, winter as to avoid the extremely cold conditions. During this period (winter), animal is metabolically inactive.

Migration:- The seasonal movement of animals from one region to another is known as migration. Animals such as birds and fish move from one region to another in response to climatic changes.

Camouflage:- The ability of an animal to blend in with its surroundings is known as camouflage. Such animals change their shape or colour to match their surroundings, which makes them harder to spot. For example, leaf insects and stick insects, or a chameleon adopt camouflage to escape their hunters.