



06 fY%aKsh – fojk jdr we.hsu - 2023

34 | E | I,II

**E | I,II**

I, II

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Science

meh  
Hour 02

Name:..... Class:..... No:.....

## Part I

**2** Underline the most suitable answer.

01. Can be considered as a product of photosynthesis

i.	Oxygen	ii.	Carbon dioxide
iii.	Water vapour	iv.	Nitrogen

02. Underline the correct statement.

- i. Animals are autotrophic
- ii. Coral polyp show movements and locomotion
- iii. Plants do not show locomotion
- iv. Animal growth is unlimited

03. An example for brittleness is,

i. Iron      ii. Aluminum      iii. Copper      iv. Glass

04. Which of the following can be considered as fossil fuel

05. Which of the following contains a huge body of water?

i. Rivers      ii. Oceans      iii. Ponds      iv. Lagoons

06. Rain, snow, sleet and hail can be categorized under.

i.	Surface water	ii.	Ground water
iii.	Brackish water	iv.	Precipitation

07. Select the incorrect statement about the gaseous state of matter.

- i. Has no definite shape
- ii. Has no definite volume
- iii. It does not spread throughout the container
- iv. None of the above

08. Which of the following does not have a definite volume?

- i. Steam
- ii. Sea shells
- iii. Stone
- iv. Milk

09. Which group of plants bears only the fibrous root system?

- i. Paddy, arecanut, grass, palmyra
- ii. Arecanut, paddy, jak, palmyra
- iii. Grass, mango, guava, paddy
- iv. Jak, guava, mango, bread fruit

10. Which of the following does not occupy space?

- i. Magnet
- ii. Air
- iii. Sound
- iv. Sun flower

11. Can be taken as a common physical property of metals?

- i. Brittleness
- ii. Ductility
- iii. Elasticity
- iv. All above

12. Underline the correct statement.

- i. Microbial activity causes food spoilage
- ii. Mosquitoes lay eggs in running water
- iii. There are only harmful effects of micro-organisms
- iv. None of the above

13. Which group of animals can be categorized under herbivorous?

- i. Crow, squirrel, deer, cow
- ii. Elephant, snake, deer, cow
- iii. Eagle, deer, elephant, cow
- iv. Cow, deer, elephant, squirrel

14. Can be used to measure the growth of a plant?

- i. Metre rod
- ii. An auxanometer
- iii. Measuring tape
- iv. An anemometer

15. Usage of a solar thermal stove is,

- i. Grinding grains
- ii. Boiling water
- iii. Lighting and electric bulb
- iv. Cutting vegetables

16. Which of the following substance can be used to make the saw dust stove other than using saw dust?

i. Rotten fruits and vegetables      ii. Rice bran  
iii. Hay      iv. All above

17. A musical instrument that produces sound by vibrating strings is,

i. Violin      ii. Trumpet      iii. Tambourine      iv. Horn

18. An example for a plant species with compound leaves,

i. Sesbenia      ii. Jak      iii. Banana      iv. Mango

19. Which group of animals chew and swallow food under their feeding mechanism,

i. Cat, rat, crocodile, mosquito      ii. Crow, cobra, tiger, elephant  
iii. Human, dog, cat, tiger      iv. Butterfly, lizard, gecko, dog

20. Factors needed for photosynthesis are,

i. Soil, water, oxygen  
ii. Carbon dioxide, water, oxygen  
iii. Carbon dioxide, water, Chlorophyll  
iv. Oxygen, Soil, Manure

**(2×20=40 Marks)**

## **Part II**

**2 Question No. 01 is compulsory. Answer 04 more questions. Total number of questions to be answered is five.**

01. A. If you are provided with a box with a lid, a one rupee coin, a torch, a small object which can be kept inside the box.

Now cut a hole at the centre of the lid similar in size of a 50 cent coin. Cut another small hole on the other side of the box. Keep a small object in the middle of the box and close the lid.



i. What would be the observation if the hole on the top is covered with a coin?

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**(01)**

ii. What would be the conclusion after recording all the observations related to this experiment?

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**(01)**

iii. What will be the new observation if you take away the coin and direct the light of the torch through the hole?

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(01)

iv. Write the final conclusion of this experiment.

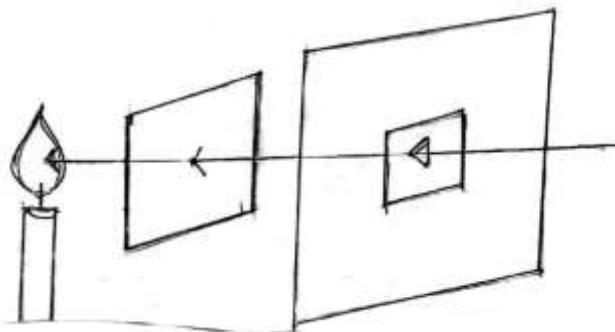
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(01)

B. You are provided with the following objects.

A piece of decorative glass, a metal sheet, a piece of thin glass, tissue paper, an oil paper, a thin polythene sheet, a black colour paper, a piece of wooden sheet



Keep each of the things that are provided to you separately in the middle and record your observations.

A The objects through which both the light and the flame are clearly seen	B The objects through which the light is seen but the flame is not clearly seen	C The objects through which neither the light nor the flame can be seen
i. _____	i. _____	i. _____
ii. _____	ii. _____	ii. _____
iii. _____	iii. _____	iii. _____

$\left(\frac{1}{2} \times 8 = 4 \text{ Marks}\right)$

ii. Mention the 03 main types of objects that can be categorized according to the transmission of light through them.

a. - \_\_\_\_\_

b. - \_\_\_\_\_

c. - \_\_\_\_\_

(01)

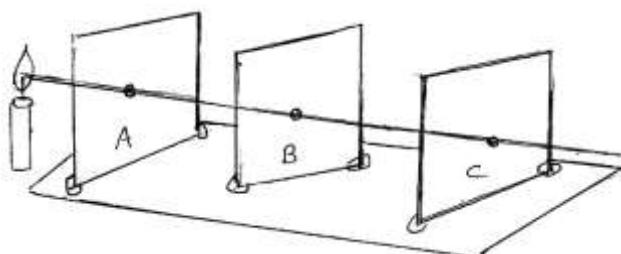
iii. Give reasons for categorizing the moon under non luminous objects.

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(01)

C.



i. If you change the position of 'B' cardboard what would be your observation?

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(01)

ii. Write the conclusion of the above experiment.

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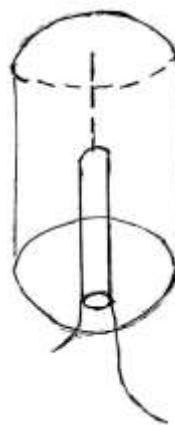
(02)

iii. Which characteristic of the light is represented by the string in a straight line?

(01)

**(Total = 16 Marks)**

02. A.



i. Give a suitable name for the above equipment.

(01)

ii. Mention a physical property of the metal tin.

(01)

iii. Which energy is produced by shaking the iron rod?

(01)

iv. What would be the observation after bringing a bar magnet closer to the iron rod?

\_\_\_\_\_

(01)

B. i. Keep the small pieces of paper on the drum and play it. What will be the observation?

(01)

ii. Which object vibrated to produce sound in the above activity?

(01)

C. i. Name the sensory organ for sound.

(01)

ii. Explain how we get the voice.

(01)

iii. How can you categorize the shouting of vendors in a market?

(01)

iv. Define music.

\_\_\_\_\_

(02)

**(Total = 11 Marks)**

03. A. Given below are some observations that were recorded by a student.  
When I brought the bar magnet closer to the,

Object A	Object B	Object C
Neither an attraction nor a repulsion is seen	Sometimes it attracts and sometimes it repels	Only an attraction is seen

i. Draw the bar magnet and mark the poles.



(02)

ii. Which object cannot be considered as a magnetic material?

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(01)

iii. What is the special feature of the object 'B'?

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(01)

iv. What is the purpose of designing an experiment for the above diagram ?

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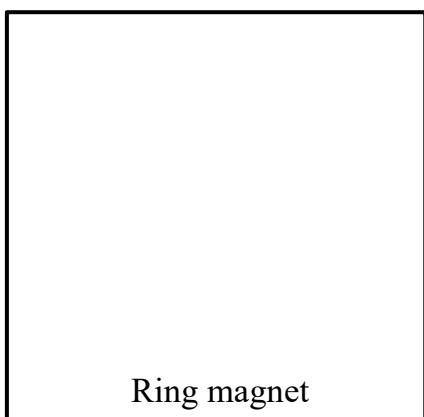


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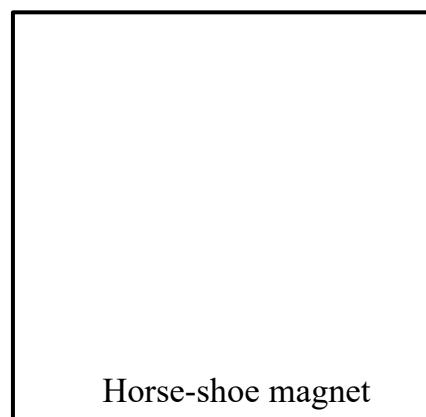
(01)

B' i. There are many permanent magnets with different shapes.

Draw a ring magnet and a horse-shoe magnet.



Ring magnet



Horse-shoe magnet

(02)

ii. You are provided with bar magnets and some small nails. How can you design an experiment to investigate to identify the most powerful magnet?

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(02)

iii. Name two groups of people who use the compass often in their day to day activities.

a. - \_\_\_\_\_

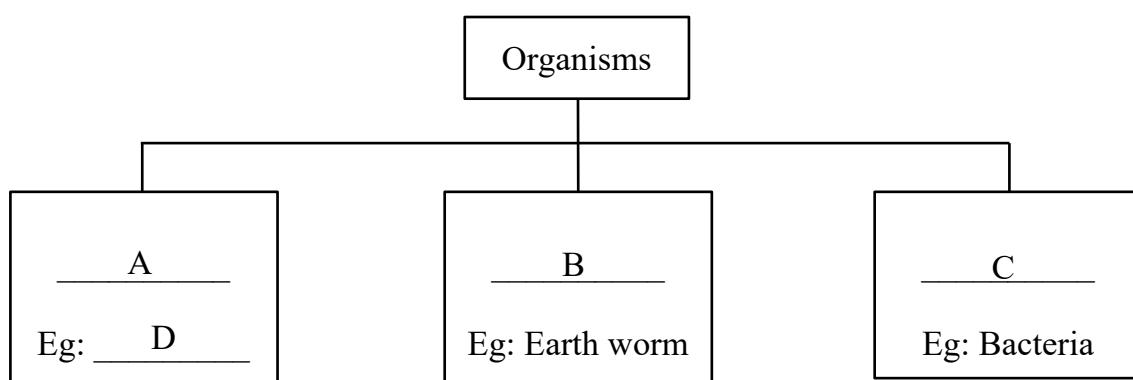
b. - \_\_\_\_\_

(02)

**(11 Marks)**

04. Nimal's father was digging a pit with a mammoty. While he was doing his job, he uprooted some grass and weeds on the ground. Some earth worms were found inside the soil.

Fill in the blanks with the correct words.



i. Organisms can be divided into 3 main groups. Name the following.

A - \_\_\_\_\_

B - \_\_\_\_\_

C - \_\_\_\_\_

D - \_\_\_\_\_

(04)

ii. What is the mode of locomotion of the earth worm?

\_\_\_\_\_

(01)

iii. Write two common characteristics that can be seen in both the earth worm and grass.

a. - \_\_\_\_\_

b. - \_\_\_\_\_

(02)

iv. What type of fuel can be produced from rotten vegetables, hay and saw dust.

\_\_\_\_\_

(01)

v. Which pigments are responsible for giving green colour to the leaves and write the importance of those pigment.

\_\_\_\_\_

(02)

vi. Which property of metals is used to make the mammyoty?

\_\_\_\_\_

(01)

05. Given below is the flow chart that shows the energy conversion in a hydro power station.



i. Which energy source is used to generate electricity in the above picture?

\_\_\_\_\_

(01)

ii. Name A

\_\_\_\_\_

(01)

iii. Name 04 other sources of energy.

a. - \_\_\_\_\_

b. - \_\_\_\_\_

c. - \_\_\_\_\_

d. - \_\_\_\_\_

$$\left(\frac{1}{2} \times 4 = 2\right)$$

B. Three sisters of the same family use three rooms for studying and they use electric bulbs to read books at night time.

i. Write one method / step that can be taken to save energy of the above house.

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(01)

ii. Who invented the first bulb with carbon filaments?

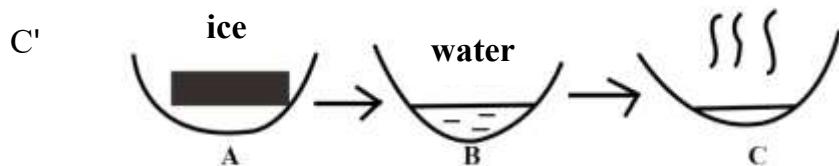
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(01)

iii. Which energy type can be produced after lighting an electric bulb?

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(01)



i. Name the 03 physical states of water represented by A, B and C

A - \_\_\_\_\_

B - \_\_\_\_\_

C - \_\_\_\_\_

(03)

ii. Name another substance with all these 03 physical states.

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(01)  
(11 Marks)

06. Mark these statements (✓) or (✗).

i. Springs are a type of ground water. ( )

ii. It is our duty and responsibility to prevent water pollution. ( )

iii. Mili-mitres are used to measure the mass of an object. ( )

iv. Water is not needed for the rigidity of plants. ( )

v. Optical fibres are a type of flexible fibres. ( )

vi. Nuclear energy is produced by using the radio active atoms. ( )

vii. It is easy to control the flame of a saw dust stove. ( )

viii. Compound microscope can be used to measure a volume accurately. ( )

ix. Air has a mass. ( )

x. Firefly can be categorized under luminous objects. ( )

xi. The amount of salt dissolved in water is known as salinity. ( )

**(11 Marks)**



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