

KOTHARI INTERNATIONAL SCHOOL, NOIDA
HALF YEARLY EXAMINATION, SESSION: 2025-26
GRADE: 6 SUBJECT: SCIENCE
SET B SECTION A (OBJECTIVE)

DAY & DATE: TUESDAY – SEPTEMBER 23, 2025

MAXIMUM MARKS: 20

TIME ALLOTTED: 30MINUTES

NAME: _____

ROLL NO: _____

GENERAL INSTRUCTIONS:

- i). *This question paper consists of 5 pages and contains 20 questions.*
- ii). *Question Nos.1 to 20 carries 1 mark each.*
- iii). *Read the question carefully and then attempt it.*
- iv). *All questions are compulsory.*

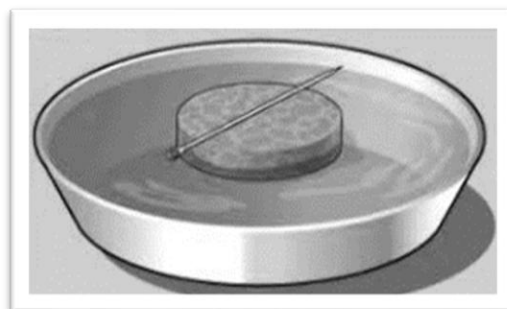
SECTION A

Choose the correct option.

- Q1.** A group of students, on a trekking trip, understand that they must continue travelling east to reach the destination. To understand the direction, they used a magnetic needle inserted in a cork and placed in a bowl of water. After sometime, the needle settled in a certain direction as shown in the figure. **(1)**

Which direction should the group of students travel to reach their destination?

- a) Towards the pointed direction.
- b) Opposite to the pointed direction.
- c) To the left of the pointed direction.
- d) To the right of the pointed direction.

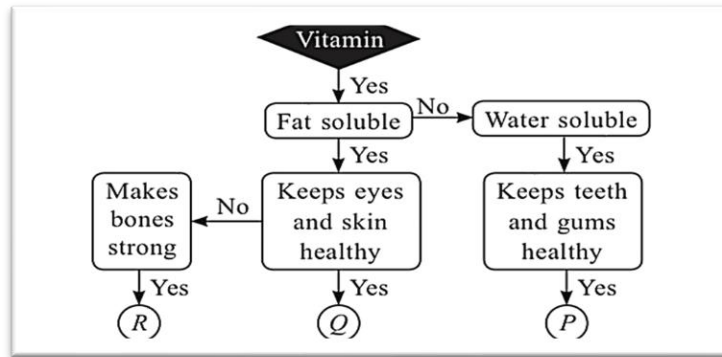


- Q2.** Sunita classified different materials based on their properties. Which of the following sets are correctly matched? **(1)**

Set	Hard	Opaque	Floats in water	Insoluble in water
I	Sponge	Butter paper	Glass marble	Honey
II	Steel	Wooden board	Ice	Mustard oil
III	Iron nail	Glass	Grass	Sugar candy
IV	Lump of sugar	Thermocol	Hair	Glass powder

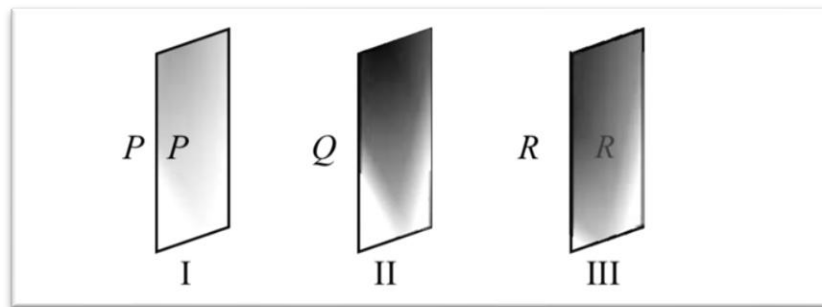
- a) II and IV b) I and II c) III and IV d. All of these

Q3. Refer to the given flow chart and select the correct option regarding P, Q and R. (1)



- a) Q refers to Vitamin –B complex.
- b) Our body can synthesis R and P hence we need not to include them in our diet.
- c) P is obtained from citrus fruits like lemon, orange etc.
- d) Deficiency of P leads to rickets whereas deficiency of R leads to beri-beri.

Q4. Manu placed three different types of materials I, II and III in front of letters P, Q and R as shown in the figure and tried to look from the other side of each. (1)

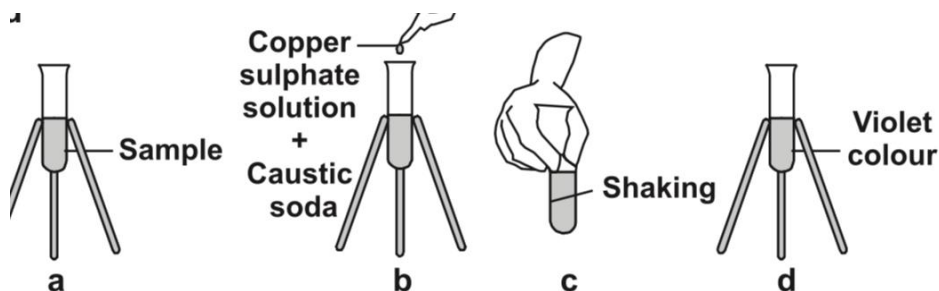


Which of the following is correct?

- a) Material II is frosted glass.
- b) Material I is glass window
- c) Material III is wooden floor
- d) All of these

Q5. Examine the given test on a sample of food item. Which food component(s) is/are proved to be present in the sample? (1)

- a) Fat and carbohydrate
- b) Protein
- c) Protein and carbohydrate
- d) Carbohydrate



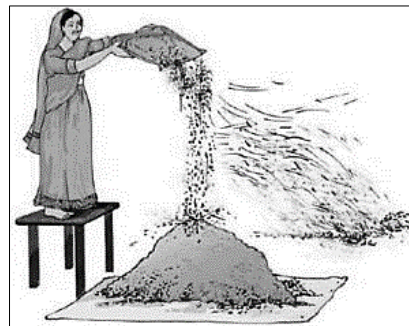
- Q6.** A student requires two magnetic substances for a science project. He could find only one magnet and thus he decided to make another magnet from it. Which of these processes could be followed to create an additional magnet? (1)
- Placing the nail close to a magnet without touching it.
 - Placing a piece of cardboard above the magnet.
 - Take a piece of iron nail and rub it repeatedly on the magnet.
 - Wrapping a piece of plastic around the magnet for a few hours.

- Q7.** Which among the following combination is correct? (1)

	Plant	Root	Leaf Venation	Cotyledon
a)	Chickpea	Taproot	Parallel	Monocotyledon
b)	Maize	Fibrous	Reticulate	Dicotyledon
c)	Wheat	Fibrous	Parallel	Monocotyledon
d)	Mango	Fibrous	Reticulate	Dicotyledon

- Q8.** The technique shown in the image on left is used for separating wheat from husk because _____ . (1)

- husk is heavier than wheat.
- husk is soluble in water
- husk is an undesirable substance.
- wheat is heavier than husk.



- Q9.** The child in the given figure is suffering from a deficiency disease. This disease is caused due to deficiency of (1)



- carbohydrates
- proteins
- fats
- vitamins

- Q10.** Siya's grandmother is suffering from diabetes. Her doctor advised her to take 'Lassi' with less fat content. Which of the following methods would be appropriate for Siya's to prepare it? (1)

- Filtration
- Decantation
- Churning
- Winnowing

- Q11.** Match the Column-I with Column-II and select the correct option from the codes given below. (1)

Column –I (Mixture)	Column-II (Method)
A. Flour and Iron powder	(i)Decantation
B. Pulses and Rice flour	(ii)Evaporation
C. Kidney beans and Lady’s fingers	(iii)Handpicking
D. Coconut oil and Water	(iv) Sieving
E. Sugar dissolved in water	(v)Magnet

- | | A | B | C | D | E |
|----|------|-------|-------|-------|-------|
| a) | (iv) | (i) | (ii) | (iii) | (v) |
| b) | (i) | (ii) | (iv) | (v) | (iii) |
| c) | (v) | (iii) | (iv) | (ii) | (i) |
| d) | (v) | (iv) | (iii) | (i) | (ii) |

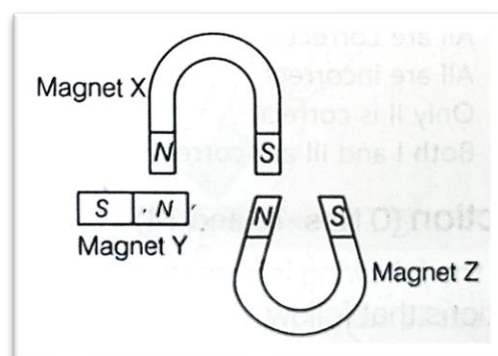
- Q12.** The picture shows two hollow pipes. One pipe is made up of copper and other is made up of plastic. (1)



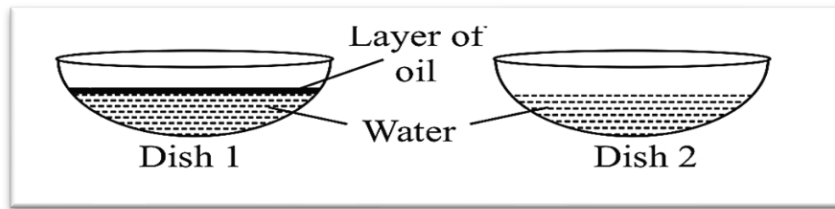
Which of the following will help to identify the pipe made up of copper?

- Place the pipes in water and check if they absorb water.
 - Rub the pipes with sandpaper and check if they appear shiny.
 - Hold the pipes under a glowing bulb and check if they produce shadows.
 - Bring the pipes near a magnet and check if they are attracted by the magnet.
- Q13.** Why is **Dr. Salim Ali** known as the “Birdman of India”? (1)
- He discovered a new plant species.
 - He worked to protect endangered animals in zoos.
 - He studied and protected many species of birds in India.
 - He was the first astronaut from India.

- Q14.** Observe the diagram shown below which consists of two horse shoe magnets and one bar magnet. Which statement is true about the following arrangement? (1)
- Magnet X will repel magnet Z.
 - Magnet Y will repel magnet Z.
 - Magnet X will be attracted to Y.
 - Magnet Z will be attracted to Y.



- Q15.** Observe the two shallow dishes kept in the sun carefully containing equal amount of water. (1)



After few hours, in which dish will the water level are not come down?

- a) Dish 1
b) Dish 2
c) In both dishes water level will not come down
d) In both dishes water level will not come down

Question No. 16 to 20 consist of two statements- Assertion (A) and Reason (R). Answer these questions by selecting the appropriate option given below:

- a) Both A and R are true, and R is the correct explanation of A.
b) Both A and R are true, and R is not the correct explanation of A.
c) A is true but R is false.
d) A is false but R is true.
e) A and R both are false.

- Q16.** **Assertion (A):** Plants with weak stems that cannot stand upright but spread on the ground are called creepers. (1)

Reason (R): Plants that take support and climb up are called creepers.

- Q17.** **Assertion (A):** The shape of the deodar tree and the height of the rhododendron are adaptations that enable them to survive in the mountain regions. (1)

Reason (R): The special features that enable plants and animals to survive in a particular region, is called adaptations.

- Q18.** **Assertion (A):** All the living organisms possess similar characteristics to adapt to the different surroundings. (1)

Reason (R): Fishes have gills to breathe in oxygen dissolved in water.

- Q19.** **Assertion (A):** Food containing fats and carbohydrates are called protective food. (1)

Reason (R): Fats provide twice as much energy provided by the same amount of carbohydrate.

- Q20.** **Assertion (A):** The unknown poles of a bar magnet can be determined by suspending it freely with the help of a string. (1)

Reason (R): A freely suspended bar magnet always comes to rest in east-west direction.