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FOUNDATION**

**CLASS
4**

**LEVEL - 1
Set A1**

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**NATIONAL INTERACTIVE
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Name :

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School :



**NATIONAL
BIOTECHNOLOGY
OLYMPIAD**



**NATIONAL
INTERACTIVE
SCIENCE
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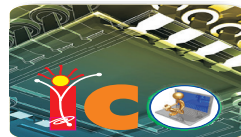
**INTERNATIONAL
ENGLISH
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**INTERNATIONAL
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Level - 1 : All Level-1 successful* participants will get certificate, aptitude report and school toppers will be eligible for school hero medals.

Level - 2 : School toppers* will be selected for level-2-National level - online computer based interactive test held at exam centres all over India. Winner will get merit certificate, medals, laptop, scholarship and other prizes.

Level - 3 : Middle and Senior Class Toppers will qualify# for level-3-International level-where you will compete with students globally. Get selected for EHF's Google Science Fair Online Training Camp. Represent India & win laurels. Guidance by top scientists.

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*# See prospectus/website for details

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ROUGH WORK

Instructions for the Candidate

1. You are allowed additional 10 minutes to fill the required details in the RESPONSE SHEET (OMR).
2. The question paper is made as per syllabus guidelines & pattern given in the information Booklet. The Question Paper for Classes 1 to 6 contains 40 Questions each to be answered in 60 minutes. The Question paper for classes 7 to 12 contains 60 Questions each to be answered in 60 minutes. All questions are compulsory. Further instructions are given in the instruction letter to the teacher.
3. Use the response sheet to mark your responses by darkening the required circle. The response sheet has to be returned to the foundation, duly filled in. **THE STUDENT CAN RETAIN THE QUESTION PAPER.**

GENERAL IQ

1. Which of the following plant grows in water?

- (1) rose
- (2) dahlia
- (3) lotus
- (4) china rose

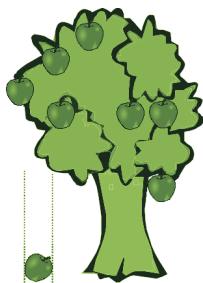
2. Camels stores _____ in their humps.

- (1) fats
- (2) water
- (3) sand
- (4) proteins

3. In a grassland ecosystem, if the population of eagles suddenly gets decreased, what will be the most likely effect on the rest of the ecosystem?

- (1) The ecosystem will become overpopulated with snakes.
- (2) There will be a decrease in the population of snakes in the ecosystem.
- (3) More types of plants will begin growing in the ecosystem.
- (4) None of these

4. This picture represents which kind of force?



- (1) Elastic force
- (2) Frictional force
- (3) Gravitational force
- (4) None of these

5. In the collection stage of the water cycle, water finds itself back in the oceans, streams and rivers by:

- (1) The suction force that comes from large bodies of water.
- (2) Gravity and the fact that things tend to flow downhill.
- (3) Both (1) and (2)
- (4) None of these

6. The smell of cooked cauliflower left for two days is

- (1) sweet
- (2) fruity
- (3) rotten
- (4) None of these

7. The unwanted plants which grow along with crops is called

- (1) weed
- (2) grass
- (3) pests
- (4) none of these

8. Why does a farmer plant cover crops?

- (1) To prevent the soil from washing away
- (2) To provide pretty blooms
- (3) To cover ugly land
- (4) None of these

9. Our eyes get tired due to watching television or working on a computer for a long time.

- (1) True
- (2) False
- (3) Can't say
- (4) None of these

10. Doctors advise us not to keep the mobile in the pocket on the left side of the shirt. Why?

- (1) As the mobile might fall.
- (2) Rays emitted by them can have harmful effects on our heart.
- (3) Rays emitted by them can make our heart stronger.
- (4) None of these

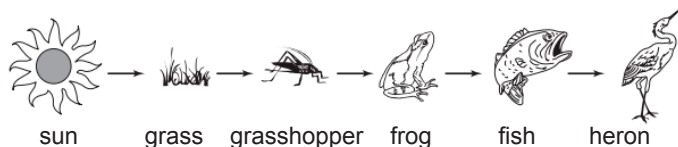
GENERAL SCIENCE

11. Blue crabs can be found in the coastal waters of Goa. Which of these explains why the crab's outer shell helps it survive in its habitat?



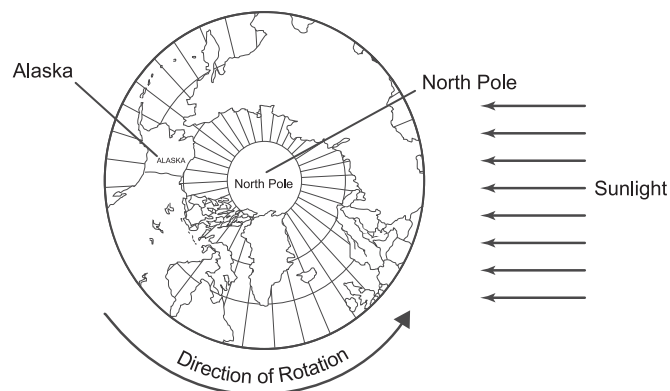
- (1) The shell keeps the crab warm.
 - (2) The shell helps the crab catch food.
 - (3) The shell protects the crab from predators.
 - (4) The shell allows the crab to get oxygen.
12. David wanted to measure how fast different insects can crawl. He must have a ruler to help him find the speed. What other tool does he need to use?
- (1) a clock with a second hand
 - (2) a fan with different speeds
 - (3) a long stick with a brush on the end
 - (4) a thermometer with degrees Celsius

13. What most likely would happen if the frog population increased in the area?

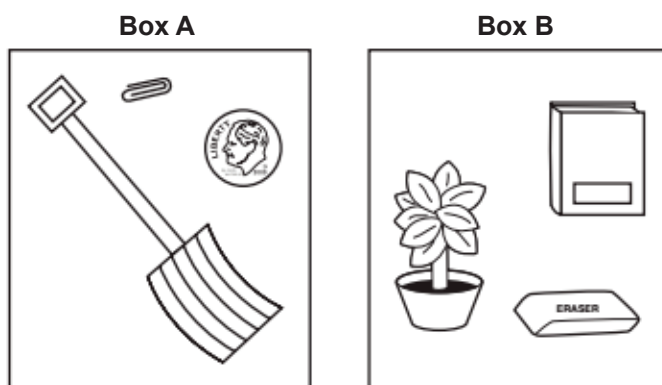


- (1) The grass would grow taller.
- (2) The heron would have more fish to eat.
- (3) The fish population would increase.
- (4) The grasshopper population would decrease.

14. The picture above shows a satellite view of Earth from directly above the North Pole during the summer. What time of day would it be in Alaska?

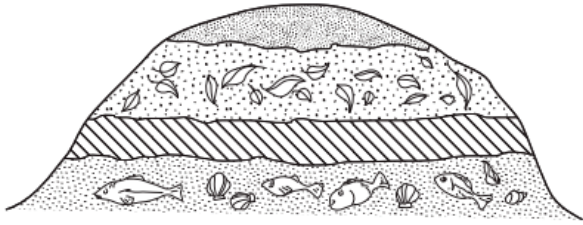


- (1) midday
 - (2) night
 - (3) sunset
 - (4) sunrise
15. A student classified the following materials. What label did the student most likely place on boxes A and B?



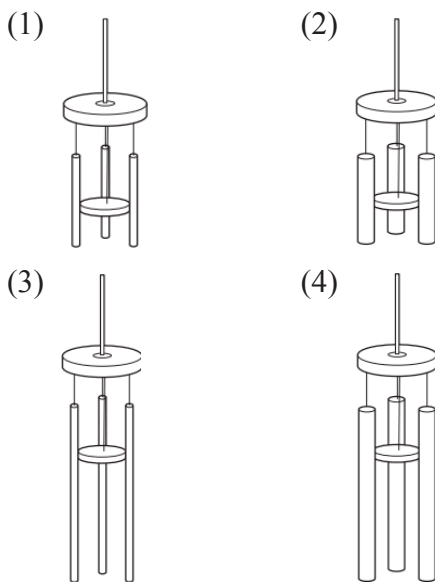
- (1) metal and nonmetal
- (2) living and nonliving
- (3) land based and water based
- (4) heavy and light

16. The picture below shows four different rock layers in a hillside.






What is the best evidence that one of these layers of rock was formed under an ocean?

- (1) the thickness of the layer
 - (2) the type of fossils in the layer
 - (3) the number of caves in the layer
 - (4) the height above sea level of the layer
17. The seismograph is most useful for studying earthquakes because it can
- (1) predict the weather.
 - (2) prevent an earthquake.
 - (3) measure the strength of vibrations.
 - (4) change the intensity of earthquakes.
18. Meera wants to buy the wind chime that will make a sound with the lowest pitch. Which wind chime should she buy?



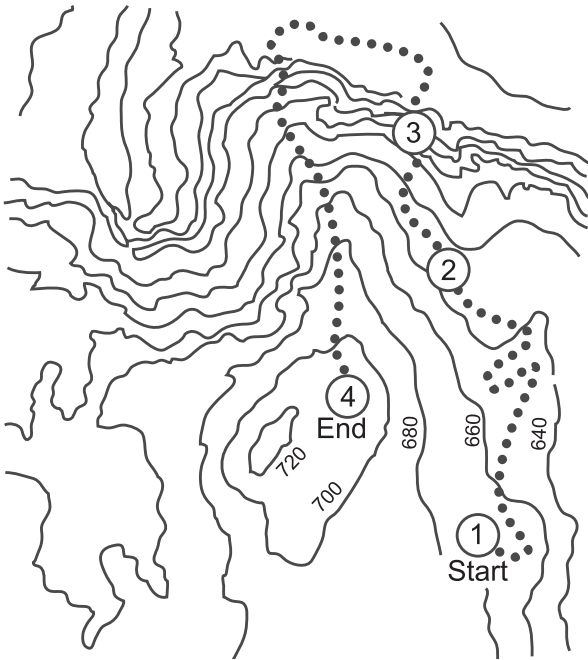
19. Four items are placed at the same distance from the magnet. Which one of the objects will be the easiest for the magnet to pull?
- (1) a 1-gram piece of paper
 - (2) a 2-gram eraser
 - (3) a 3-gram steel paper clip
 - (4) a 4-gram iron nail
20. Fossil fuels are not renewable. What will happen if people continue to consume these fossil fuels?
- (1) These resources will disappear.
 - (2) We will need to make more fossil fuels.
 - (3) Conditions will remain the same.
 - (4) Cars will be able to move faster.
21. Which of these statements is supported by the information in the chart below?

Animal	Behaviour
 Goose	A goose flies south for the winter.
 Salamander	A salamander crawls under a log in the summer.
 Mouse	A mouse runs into a hole.

- (1) Different animals eat different types of food.

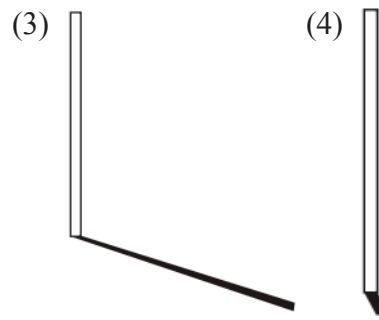
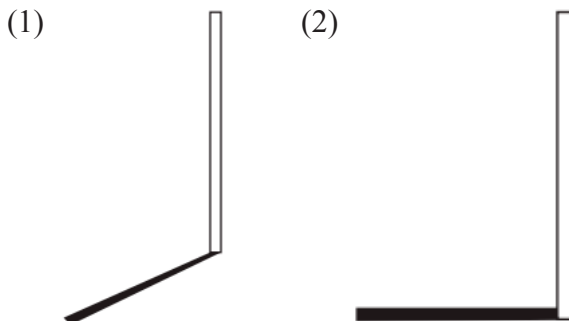
- (2) Some animals move in order to meet their needs.
- (3) A salamander moves slower than a mouse.
- (4) Animals depend on each other for survival.

22. Rahul and Anil drew their hiking route on the contour map shown above. In which area would they need to use climbing ropes?



- (1) Location 1 (2) Location 2
- (3) Location 3 (4) Location 4

23. Chandan conducted an experiment with shadow sticks. The pictures below were drawn from his observations of the Sun's movement across the sky. Which picture shows the time of the day when the Sun was highest in the sky?



24. Predict a reasonable temperature for Day 2.

Weather Conditions for a given city

	Temperature	Wind Direction
Day 1	25.5°C	Southeast
Day 2		North
Day 3	27.7°C	Southwest
Day 4	30.5°C	South

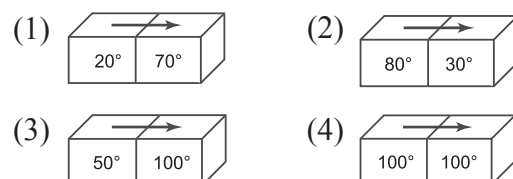
- (1) 21.1°C (2) 25.5°C
- (3) 28.3°C (4) 29.4°C

25. How might this Dalmatian be different from other Dalmatians?

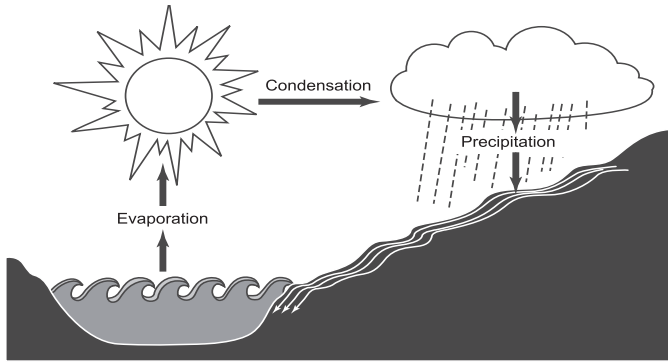


- (1) the way it breathes
- (2) the pattern of its spots
- (3) the way it eats
- (4) its natural habitat

26. The pictures below show pairs of metal blocks and their temperatures. Which of these correctly shows the direction that heat energy will move?

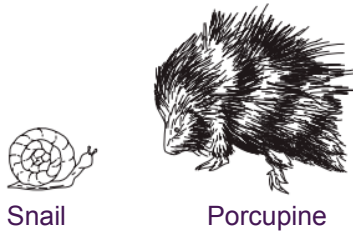


27. During which part of this cycle does it snow?



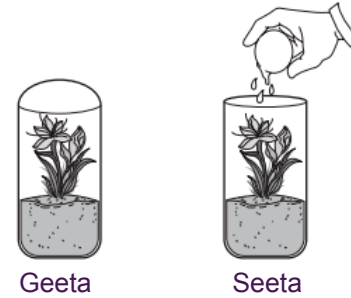
- (1) Evaporation
- (2) Condensation
- (3) Precipitation
- (4) Runoff

28. How is the snail's shell like the porcupine's quills?



- (1) They are both used for digestion.
- (2) They are both used for protection.
- (3) They are both used for food gathering.
- (4) They are both used for breathing.

29. Geeta and Seeta set up their terrariums for a class project. Geeta never had to water hers but Seeta had to water her almost every other day. Why do you think this happened?



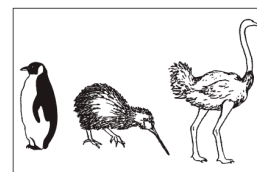
- (1) Geeta poured more water in hers before closing it up.
 - (2) Seeta used different soda bottles to set her up.
 - (3) Seeta decided to leave the top off and water evaporated quickly.
 - (4) Geeta used plant food and Seeta did not
30. Several boxes need to be moved. Which one needs the greatest amount of push to start moving?
- (1) the darkest box
 - (2) the heaviest box
 - (3) the brightest box
 - (4) the smoothest box

INTERACTIVE SECTION

31. Which of the following allows water to move from Earth's surface back into the air?

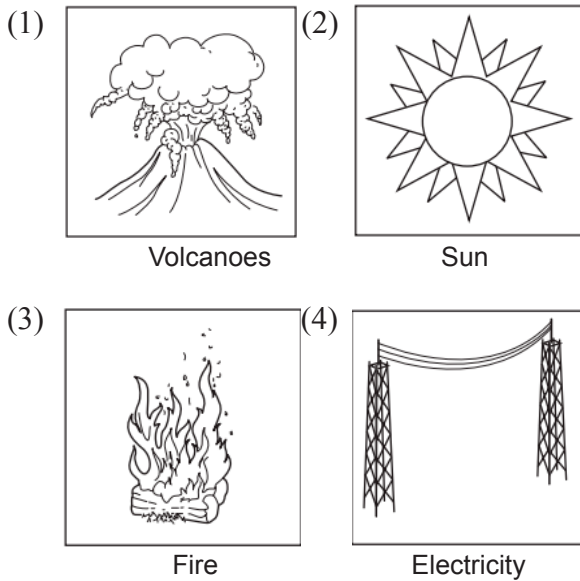
- (1) gravity
- (2) weathering
- (3) condensation
- (4) evaporation

32. Which animal is most like the ones below?



- (1)
- (2)
- (3)
- (4)

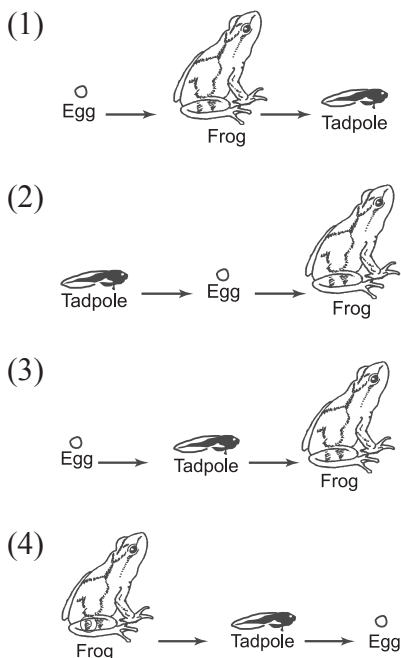
33. Which of the following is the primary source of heat and light on the Earth's surface?



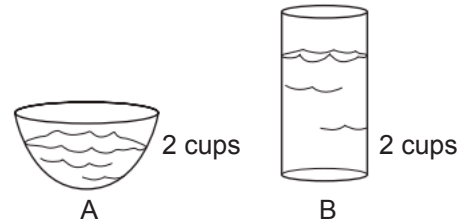
34. What is an advantage of living in a herd?

- (1) overcrowding
- (2) more competition for food
- (3) competition for a mate
- (4) protection for each other

35. Which diagram shows the correct life cycle of a frog?



36. Two cups of water were placed into each of the open containers. Predict what the water levels will be tomorrow.



- (1) The same amount of water will be left in both.
- (2) There will be more water left in container B than in A.
- (3) There will be more water in container A than in B.
- (4) They will both still have two cups of water.

37. Which of your body systems lets you know when water is hot?

- (1) nervous system
- (2) respiratory system
- (3) circulatory system
- (4) skeletal system

38. Electricity traveling through a wire is an example of

- (1) a force applied by a simple machine
- (2) energy flowing through the water cycle
- (3) Earth's gravitational pull on an object
- (4) energy being transferred from place to place

39. What does a seed contain that provides energy for germination?

- (1) water
- (2) stored food
- (3) soil
- (4) sunlight

40. The main purpose of a plant's flowers is to

- (1) provide support
- (2) provide water
- (3) produce seeds
- (4) produce food



END OF THE EXAM