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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. A car can move and also requires fuel as food. So car is a living thing.
 - (1) yes
 - (2) no
 - (3) can't say
 - (4) none of these
2. Which of the following is the tallest?
 - (1) Banyan tree
 - (2) Rose plant
 - (3) Coconut tree
 - (4) Mango tree
3. Barking is the sound made by
 - (1) dog
 - (2) cow
 - (3) goat
 - (4) hen
4. Days are longer & nights are shorter in
 - (1) winter
 - (2) spring
 - (3) summer
 - (4) none of these
5. How does chocolates, ice-cream & toffees taste?
 - (1) sour
 - (2) sweet
 - (3) bitter
 - (4) tasteless
6. He can identify rose out of a bag full of flowers by
 - (1) touching
 - (2) smell
 - (3) sound
 - (4) none of these
7. Water can be kept in
 - (1) glass
 - (2) cloth
 - (3) paper
 - (4) none of these
8. Ranbir's father wants to withdraw some money to do some shopping. Where should he go?
 - (1) hospital
 - (2) post office
 - (3) bank
 - (4) police station
9. A house protects us from
 - (1) heat
 - (2) cold
 - (3) rain
 - (4) all of these
10. The six digit number written at the last in address written on letters is
 - (1) STD number
 - (2) Mobile no.
 - (3) PIN code
 - (4) none of these

GENERAL SCIENCE

11. What is the role of a producer in a food chain?

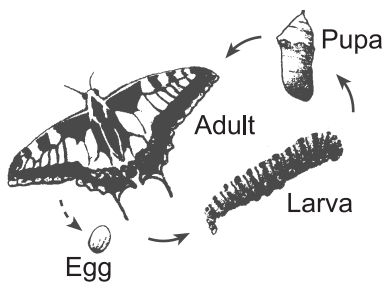
- (1) preys on animals
- (2) eats decayed animals
- (3) makes food
- (4) eats plants

12. The diagram below shows a potato plant in a cup. The cup was originally filled to the top with water. Which statement best explains why the cup no longer contains water?



- (1) The water froze.
- (2) The water condensed.
- (3) The water was taken in by the roots.
- (4) The water was moved by gravity.

13. What is shown in the diagram below?



- (1) a life span
- (2) a population
- (3) a life cycle
- (4) a community

14. Which list below best shows how energy moves in a food chain?

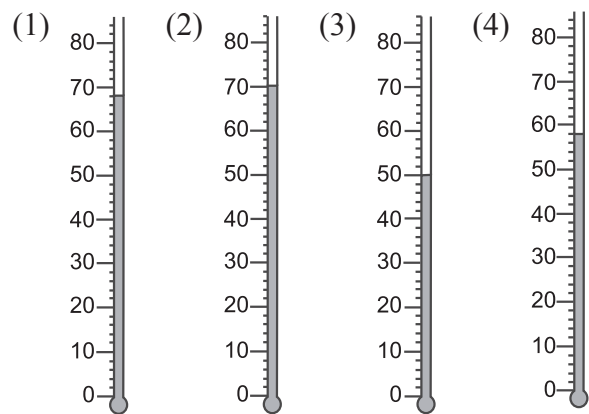
- (1) grass → cows → humans → Sun
- (2) Sun → grass → cows → humans
- (3) humans → cows → grass → Sun
- (4) cows → grass → Sun → humans

15. The chart below shows temperatures recorded from Monday through Friday during a week in June.

Temperatures for the Week

Day	Temperature (°F)
Monday	72
Tuesday	76
Wednesday	68
Thursday	70
Friday	70

Which thermometer shows the temperature recorded on Wednesday?



16. The chart below shows how long it took a seed to sprout at three different temperatures.

Temperature	Days Needed to Sprout
60°F	15
65°F	13
70°F	11

Based on the chart, how long will it take for the

same kind of seed to sprout at 75°F?

- (1) 11 days
- (2) more than 11 days
- (3) less than 11 days
- (4) None of these

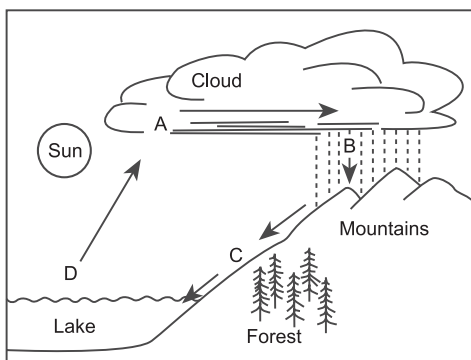
17. A student planted the same kind of seeds in pots *A* and *B*. She planted five seeds in pot *A* and five seeds in pot *B*. The amount and type of soil in both pots was the same. She added the same amount of water to both pots each week. Pot *A* was placed by a sunny window. Pot *B* was placed in a dark room. After four weeks, she observed the plants in both pots. The plants in pot *A* were green, with tall, thick stems. The plants in pot *B* were yellow, with tall, thin stems.

Which statement best explains why the plants in pot *A* were different from the plants in pot *B*?

- (1) Pot *A* contained more soil than pot *B*.
- (2) Pot *A* contained more seeds than pot *B*.
- (3) Pot *A* received more sunlight than pot *B*.
- (4) Pot *A* received more water than pot *B*.

Direction: Base your answers to questions 18 through 20 on the water cycle shown below. Four parts of the water cycle are labeled *A*, *B*, *C*, and *D*.

Water Cycle



18. Which process is occurring at *D*?

- (1) condensation
- (2) evaporation
- (3) precipitation
- (4) runoff

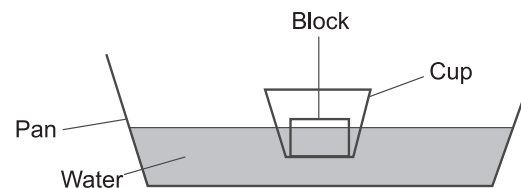
19. Water flowing on Earth's surface at *C* is called

- (1) condensation
- (2) evaporation
- (3) precipitation
- (4) runoff

20. Which process is occurring at *B*?

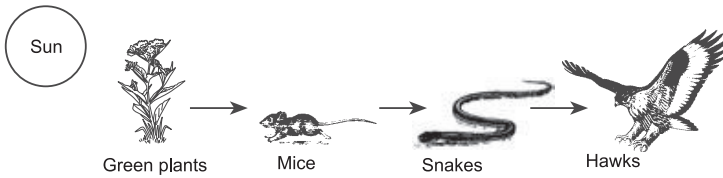
- (1) condensation
- (2) evaporation
- (3) precipitation
- (4) runoff

21. A plastic cup containing a wood block is floating in a pan of water as shown in the diagram below. If another wood block is placed in the cup, what will happen to the level of water in the pan?



- (1) It will go down.
- (2) It will go up.
- (3) It will stay the same.
- (4) None of these

22. A food chain is shown below.

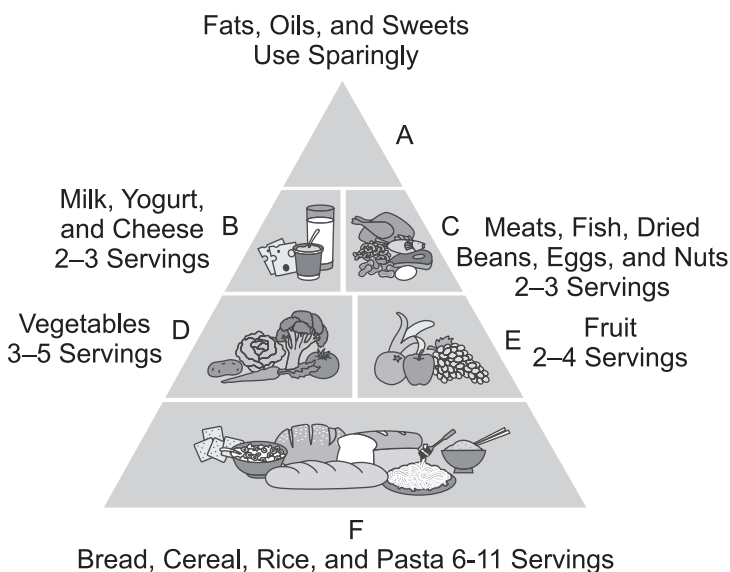


(Not drawn to scale)

Which population would most likely decrease if the number of mice greatly increased?

- (1) green plants
- (2) mice
- (3) snakes
- (4) hawks

23. The pyramid tells how many servings each day should come from each of the six food groups.



From which group should a person have the greatest number of servings daily

- (1) A
- (2) C
- (3) E
- (4) F

24. Why is it important to eat foods from each group every day?

- (1) It is important in order to stay healthy.
- (2) Because your body needs energy and nutrients
- (3) Because all the groups are good for you

(4) All of the above

25. How many servings of the vegetable group should a person have every day? _____ servings

- (1) 3 to 5
- (2) 3 to 4
- (3) 5
- (4) All of these

26. Which unit is used to measure how warm or cool the air is?

- (1) grams
- (2) kilometers
- (3) degrees Celsius
- (4) cubic centimeters

27. Water is boiled in a pan on a stove. The state of matter of the water changes from

- (1) liquid to solid
- (2) solid to liquid
- (3) gas to liquid
- (4) liquid to gas

28. Which kind of energy is produced when a student beats a drum?

- (1) electrical
- (2) sound
- (3) light
- (4) chemical

29. Which forms of energy are produced by a burning candle?

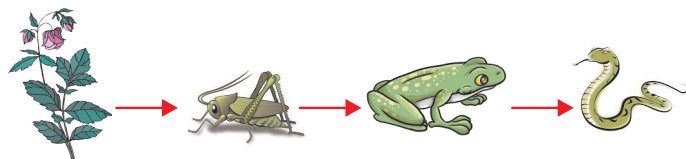
- (1) heat and mechanical
- (2) electrical and sound
- (3) light and electrical
- (4) heat and light

30. A toaster changes electrical energy to

- (1) heat energy
- (2) solar energy
- (3) sound energy
- (4) magnetic energy

INTERACTIVE SECTION

Base your answer to question 31 and 32 on the food chain below.



31. In this food chain, the green plants are
- (1) producers
 - (2) predators
 - (3) decomposers
 - (4) prey
32. The frogs in this food chain get their energy directly from
- (1) eating the insects
 - (2) being eaten by the snakes
 - (3) eating other frogs
 - (4) eating green plants
33. Which type of energy must be added for the ice to change to liquid water?
- (1) Heat
 - (2) Solar energy
 - (3) Thermal energy
 - (4) All of the above
34. In which diagram does water have a definite shape and volume?
- (1) Ice
 - (2) Liquid water
 - (3) Water vapour
 - (4) None of these

35. Which state of matter is water vapour?

- (1) Solid
- (2) Liquid
- (3) Gas
- (4) Plasma

Base your answers to questions 36 and 37 on the chart below and on your knowledge of science.

Humans and other animals have some traits that are inherited from their parents and others that are learned.

Traits

- (A) Brown hair
 - (B) Riding a bicycle
 - (C) Reading a book
 - (D) Blue eyes
 - (E) Blowing a bubble
36. Which are **inherited** traits?
- (1) A
 - (2) D
 - (3) Both (1) & (2)
 - (4) None of these
37. Which are **learned** traits.
- (1) A, B
 - (2) B, C
 - (3) C, D
 - (4) B, C, E

38. An ice cube was put in a pan and placed in a warm room for one hour. Identify physical properties of the ice cube that will change as it melts into a liquid.

- (1) Solid to liquid
- (2) Shape, size/volume
- (3) Texture, hardness
- (4) All of the above

Base your answers to questions 39 and 40 on the animals shown below.

39. The table given shows an animal and the adaptation that helps this animal to survive in winter.



Frog

Bear

Bird

(not drawn to scale)

Match the adaptation with the animal.

Animal	Adaptaton
A. Bear	(i) burrow in the mud
B. Bird	(ii) migrate south/grow thicker feathers
C. Frog	(iii) grow thick fur/hibernate/get fatter

- (1) A(i) B(ii) C(iii)
- (2) A(ii) B(i) C(iii)
- (3) A(iii) B(ii) C(i)
- (4) A(iii) B(i) C(ii)

40. In one column the animals are shown. In the other column, three body parts that this animal uses to help it survive and how the animal uses each body part to help it survive is shown.

Animal	Body Part and How the Animal Uses the Body Part to Help it Survive
A. Frog	a — ears — hear predators
B. Bear	b — legs — escape predators
C. Bird	c — teeth — strong to eat vegetation
	d — claws — protection, catch prey
	e — wings — migrate
	f — beak — eat seeds or grubs or other things
	g — eyes — see and escape danger
	h — feathers — warmth/insulation
	i — legs — jump to catch flies
	j — eyes — near top of head to see above water
	k — feet — webbed to swim faster
	l — tongue — catch food

Match the **Animal** with the **Body part and How the Animal uses the body part to help it survive?**

- (1) A(a, b, c, d) B(e, f, g, h) C(i, j, k, l)
- (2) A(e, f, g, h) B(i, j, k, l) C(a, b, c, d)
- (3) A(i, j, k, l) B(a, b, c, d) C(e, f, g, h)
- (4) None of these



END OF THE EXAM