

# FSP SCIENCE CONTEST 2021

QUESTION BOOKLET  
GRADE 3 & 4

VIBRANT YOUNGSTERS

**TIME ALLOWED: 75 Minutes**

**MAXIMUM MARKS: 75**



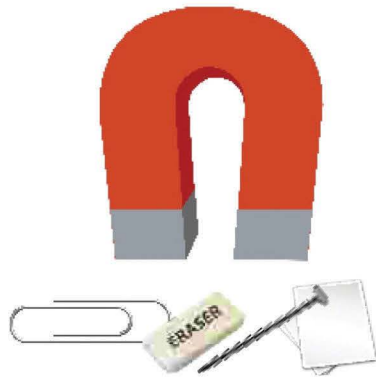
**FAMOUS STUDENTS PLATFORM**

# INSTRUCTIONS

- 1) DON'T START ATTEMPTING THE PAPER UNTIL INSTRUCTED BY THE INVIGILATOR.
- 2) INSTRUCTIONS FROM THE EXAMINATION INVIGILATOR MUST BE CARRIED OUT PROMPTLY.
- 3) CAREFULLY RECHECK YOUR NAME, FATHER NAME, SCHOOL NAME, ADDRESS ETC AT THE BUBBLE SHEET / ANSWER SHEET.
- 4) RECORD ALL ANSWERS ON THE BUBBLE SHEET ONLY. SELECT BEST ANSWER FROM THE FOUR GIVEN OPTIONS AND MARK ONLY ONE OPTION IN EACH QUESTION.
- 5) USE BLUE / BLACK INK TO FILL UP THE CIRCLES FOR YOUR ANSWERS ON THE BUBBLE SHEET. USE OF LEAD PENCIL IS NOT ALLOWED.
- 6) USE OF ANY HELPING MATERIAL INCLUDING CELL PHONES AND ELECTRONIC DEVICES IS STRICTLY PROHIBITED.
- 7) EVERY CORRECT ANSWER EARNS THREE POINTS. THERE WOULD BE NEGATIVE MARKING. ONE POINT WOULD BE DEDUCTED FOR EVERY INCORRECT ANSWER.
- 8) CANDIDATES MAY NOT LEAVE THE EXAMINATION ROOM UNESCORTED FOR ANY REASON, AND THIS INCLUDES USING THE WASHROOM.
- 9) NO MATERIALS OR ELECTRONIC DEVICES SHALL BE BROUGHT IN TO THE ROOM.
- 10) THERE ARE FIVE CATEGORIES OF THE CONTEST AS UNDER:
  - A) VIBRANT YOUNGSTERS (GRADE 1 & 2)
  - B) VIBRANT YOUNGSTERS (GRADE 3 & 4)
  - C) VIBRANT YOUNGSTERS (GRADE 5 & 6)
  - D) VIBRANT YOUNGSTERS (GRADE 7 & 8)
  - E) VIBRANT YOUNGSTERS (GRADE 9 & 10 / 0-LEVELS)
- 11) ONLY REGISTERED STUDENTS CAN PARTICIPATE IN THE CONTEST.
- 12) NO CANDIDATE SHALL TAKE OUT OF THE HALL ANY ANSWER BOOK(S) OR PART OF AN ANSWER BOOK, WHETHER USED OR UNUSED, OR OTHER SUPPLIED MATERIAL.
- 13) IF A PARTICIPANT DOES NOT UNDERSTAND A WORD OR PHRASE ON THE EXAM PAPER, NEITHER EXAMINER NOR INVIGILATOR IS PERMITTED TO ANSWER.
- 14) FOR INFORMATION ABOUT UPCOMING CONTESTS OR PROVIDING VALUABLE FEEDBACK, PLEASE VISIT [WWW.FSPCOMPETITIONS.ORG](http://WWW.FSPCOMPETITIONS.ORG)
- 15) ANY ACADEMIC MISCONDUCT OR MALPRACTICE MUST BE REPORTED TO FSP VIBRANT YOUNGSTERS AT [INFO@FSPCOMPETITIONS.ORG](mailto:INFO@FSPCOMPETITIONS.ORG)



Q.1) 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?



- A** A 1-Gram piece of Paper
  - B** A 2-Gram eraser
  - C** A 3-Gram steel clip
  - D** A 4-Gram iron nail
- 

Q.2) Steven kept track of weather conditions over one week. The following chart shows his data.

**Weather Changes**

Day	Temperature (degrees Fahrenheit)	Condition
Monday	56	Sunny
Tuesday	47	Cloudy
Wednesday	45	Partly cloudy
Thursday	51	Rainy
Friday	54	Partly cloudy
Saturday	68	Sunny
Sunday	61	Sunny

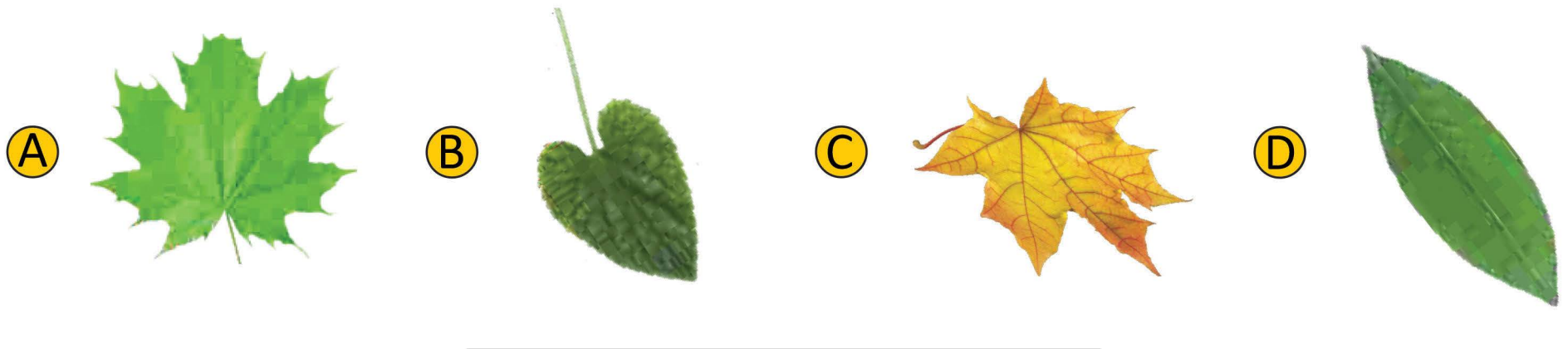
Which statement describes the weather during the week?

- A** It was sunny on the warmest days of the week.
  - B** The weather improved each day of the week
  - C** Most days of the week were very cloudy.
  - D** It rained on the coldest day of the week.
-

Q.3) A student looks at a leaf and writes down how it looks. The leaf was:

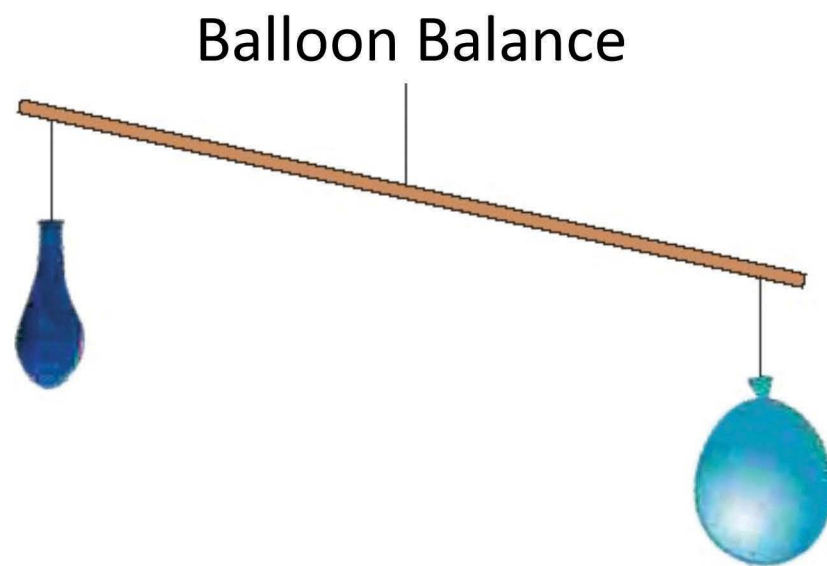
- i) Long      ii) Narrow      iii) Pointed End      iv) Smooth Edge

Which of these BEST matches the leaf the student looked at?



Q.4) The picture shows a balance. One side of the balance holds an empty balloon.

The other side holds the same kind of balloon full of air. Which of these is shown by the balance?



- A** Air is Solid      **B** Air has heat      **C** Air has mass      **D** Air is energy

Q.5) Which kind of work is made easier by the wheels of a wagon?



- A** Pulling a heavy load  
**B** Lifting a wide load  
**C** Dividing a large load  
**D** Holding a small load



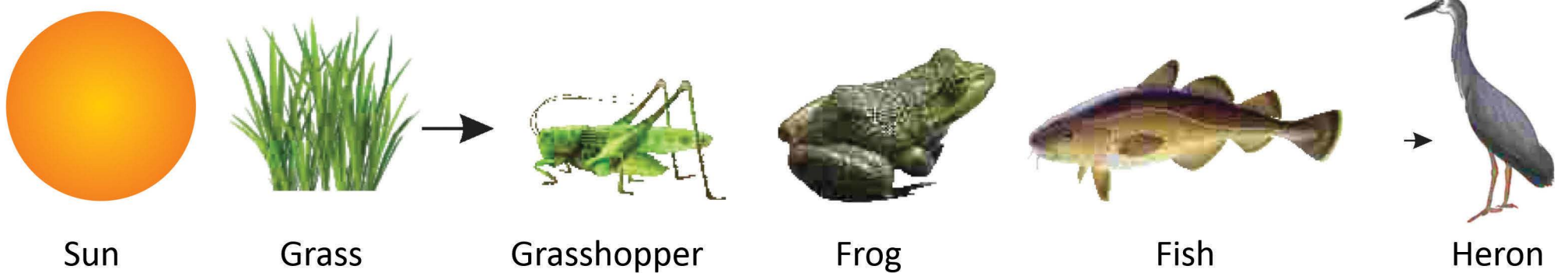
Q.6) Which of these lists has only products that come from plants?

- A** Paper, Spices, & fibers
  - B** Wool, Lumber, & buller
  - C** Medicines, Leather, & Milk
  - D** Cotton, Rubber, & Eggs
- 

Q.7) The BEST way to make a shadow on a living room wall is to -

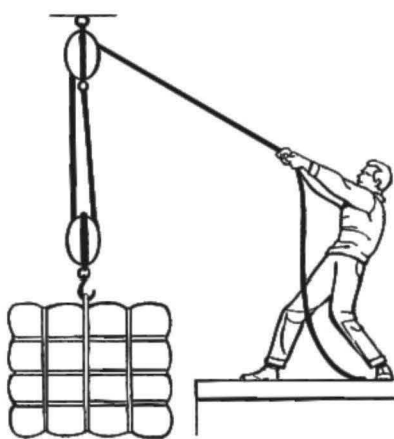
- A** Hold a lamp near the floor
  - B** Turn off the lights in the room
  - C** Sit close to the wall near a window
  - D** Stand between a light and the wall
- 

Q.8) What most likely would happen if the frog population decreased in the area?



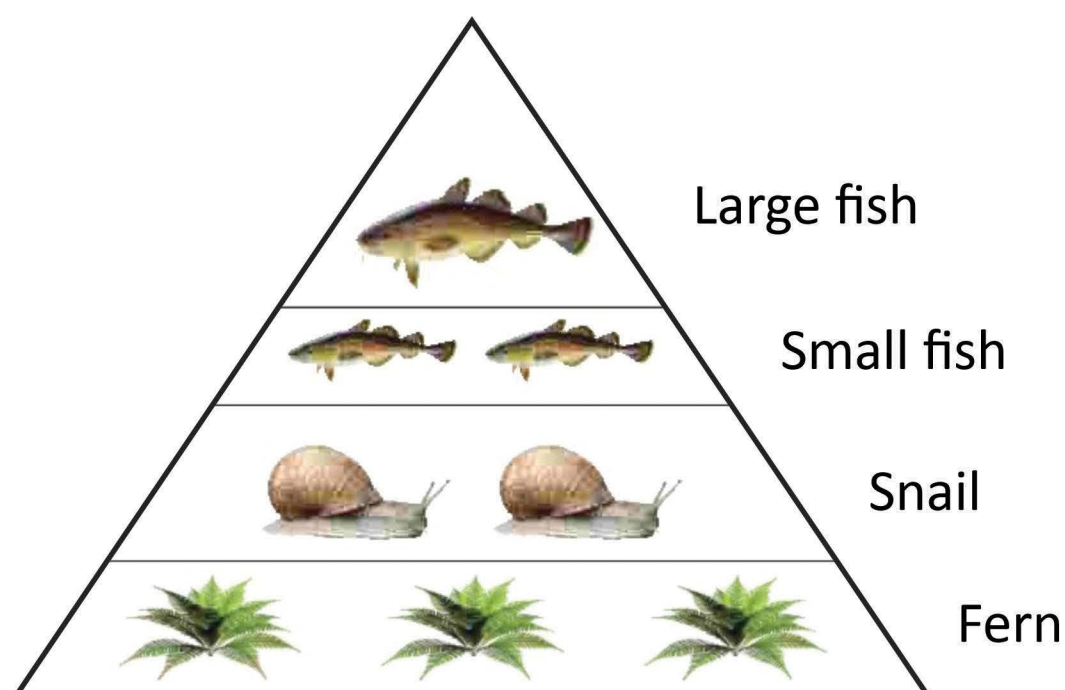
- A** The grass would grow taller.
  - B** The heron would have more fish to eat.
  - C** The fish population would increase.
  - D** The grasshopper population would increase.
- 

Q.9) Which of these simple machines does this model represent?



- A** A screw
  - B** A wedge
  - C** A lever
  - D** A pulley
-

Q.10) An energy pyramid is shown below



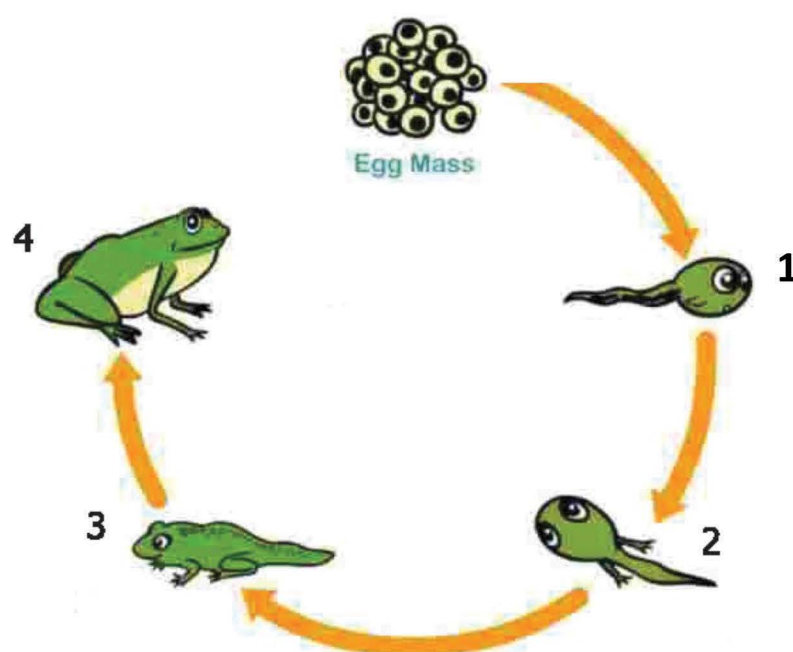
What is the role of the fern in the energy pyramid?

- A Producer       B Herbivore       C Carnivore       D Decomposer
- 

Q.11) Years ago, scientists discovered that a curved piece of glass magnified the image of an object. Which new technology was created from this discovery?

- A Satellites       B Computers       C Telescopes       D Radios
- 

Q.12)



In which numbered stage of the frog's life cycle does the frog begin to use lungs to breathe air?

- A 1       B 2       C 3       D 4
-



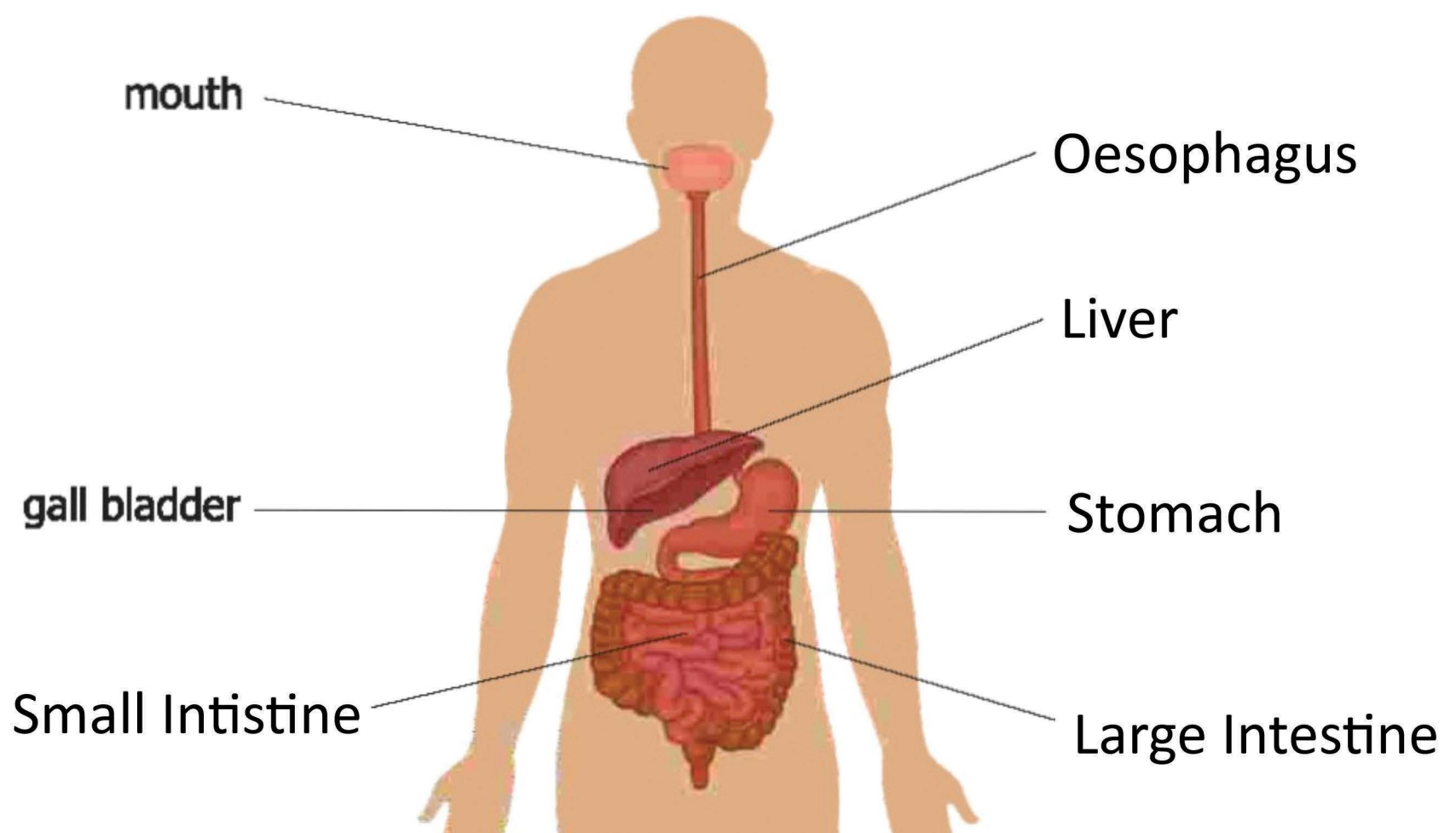
Q.13) Which part of a plant cell is not found in an animal cell?

- Ⓐ Cell membrane   Ⓑ Chloroplast   Ⓒ Nucleus   Ⓓ Vacuole
- 

Q.14) Coal is an Earth material that is often used to heat people's homes. How has coal improved the quality of life for people on Earth?

- Ⓐ People use coal as a fuel source.  
Ⓑ People use coal to power wind turbines.  
Ⓒ People use coal to build bridges.  
Ⓓ People use coal to prevent disease.
- 

Q.15) The drawing shows some parts of the human digestive system.



What does food pass through on its way from the mouth to the stomach?

- Ⓐ Gall bladder   Ⓑ Large Intestine   Ⓒ Oesophagus   Ⓓ Small Intestine
-

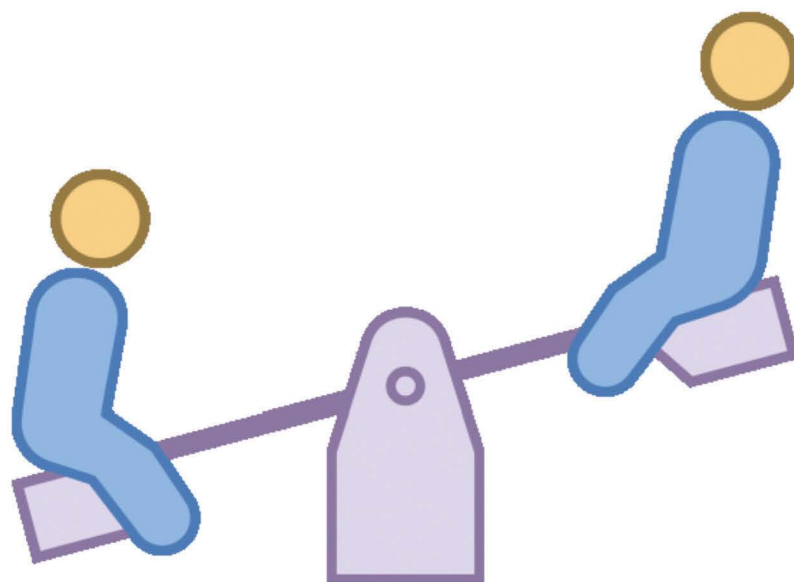
Q.16) A student builds a model of a weather tool.



Which weather condition does this tool best measure?

- A Rainfall     B Air pressure     C Wind speed     D Temperature
- 

Q.17) Two students sit on opposite ends of a balanced seesaw.



What will happen if the student on the right side gets off the seesaw?

- A The seesaw will stay balanced.  
 B The left side of the seesaw will drop to the ground  
 C The left side of the seesaw will go up in the air.  
 D Both ends of the seesaw will drop to the ground.
- 

Q.18) Sarah used a magnifying glass to look at the roots of a plant.



(Next Page)



What is the main function of the roots?

- A to store food
  - B to make food
  - C to take in water
  - D to take in soil
- 

Q.19) How is the snail's shell like the porcupine's quills?



Snail



Porcupine

- A They are both used for digestion.
  - B They are both used for protection.
  - C They are both used for food gathering.
  - D They are both used for breathing.
- 

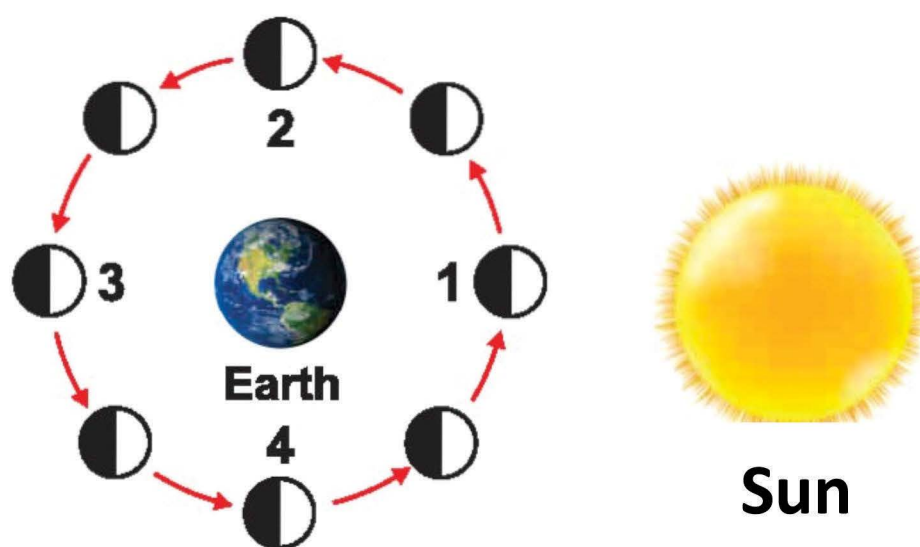
Q.20) Which skull is probably from an animal that ate grass?



Q.21) Students used a thermometer to measure the temperature of a liquid after being heated in the sun for two hours. Which units would the students use to record the temperature?

- A degrees Celsius                       B centimeters  
 C milliliters                               D grams
- 

Q.22) A diagram of the Sun-Earth-Moon system is shown below.



In which position would the moon be to see a full moon on Earth?

- A 1                       B 2                       C 3                       D 4
- 

Q.23) A load is easier to move using the machine below.



Which of these was reduced by using the wheelbarrow to move the soil?

- A Friction                       B Gravity                       C Air pressure                       D Air resistance
-

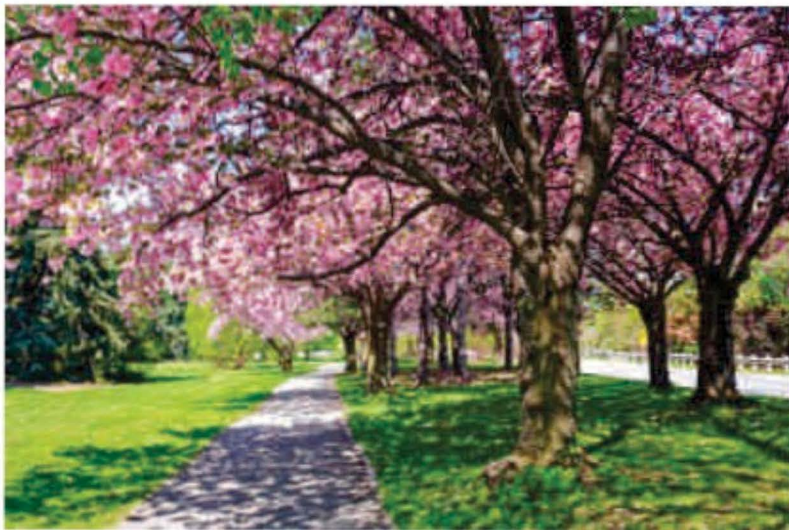


Q.24) Which of the following is the best way to dispose waste water from our kitchen?

- (A) Using it as drinking water.      (B) Using it as bathing water.  
(C) Using it for watering plants.      (D) Letting it to stagnate on the road

Q.25) Use the drawings below to answer the question.

System X



System Y



Which statement best describes the two systems?

- (A) Both systems are natural.  
(B) Both systems are human-made.  
(C) System X is human-made, and System Y is natural.  
(D) System X is natural, and System Y is human-made.

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**BEST OF LUCK!**



# ANSWER SHEET

## INSTRUCTIONS:

- This is a generic answer sheet to be used by participants of all grades. Students of Grade 1-2 will fill in circles of first 20 questions. Grade 3-4 will fill in circles of 25 questions & Grade 5-10 will fill in circles of 30 questions.
- Please recheck your Name, Father Name, Garde & School written below, the same would appear at your certificate.
- Use of lead pencil is not allowed.
- Use only Black / Blue ink to fill in the circles.

Choose only ONE of the FOUR proposed answers (A,B,C or D) & fill in the circles with your answer.

Example of correctly filled table of answers.

<input type="radio"/> A	<input type="radio"/> B	<input checked="" type="radio"/> C	<input type="radio"/> D	Correct Filling Answer "C"	<input type="radio"/> A	<input type="radio"/> B	<input checked="" type="radio"/> C	<input type="radio"/> D	wrong filling	<input type="radio"/> A	<input type="radio"/> B	<input checked="" type="radio"/> C	<input type="radio"/> D	wrong filling
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Q. No.	Answer				Q. No.	Answer			
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2	<input checked="" type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	17	<input type="radio"/> A	<input checked="" type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D
3	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input checked="" type="radio"/> D	18	<input type="radio"/> A	<input type="radio"/> B	<input checked="" type="radio"/> C	<input type="radio"/> D
4	<input type="radio"/> A	<input type="radio"/> B	<input checked="" type="radio"/> C	<input type="radio"/> D	19	<input type="radio"/> A	<input checked="" type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D
5	<input checked="" type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	20	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input checked="" type="radio"/> D
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14	<input checked="" type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D					
15	<input type="radio"/> A	<input type="radio"/> B	<input checked="" type="radio"/> C	<input type="radio"/> D					





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