



# INTERNATIONAL CATS CONTESTS

COMPETENCE & APTITUDE TESTING SERVICES



**GRADE 3 & 4 (KIDS)**

*Time Allowed: 75 Mins.*

*Maximum Marks: 75*



**ICATS**  
**SCIENCE** Contest 2018  
**QUESTION BOOKLET**

# ICATS SCIENCE CONTEST 2018

## KIDS (GRADE 3 & 4)

TIME ALLOWED : 75 MINUTES, MAXIMUM MARKS : 75

TOTAL QUESTIONS : 25 MCQS

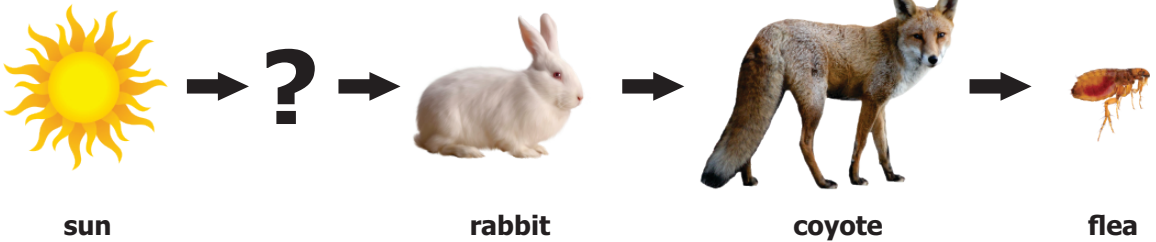
### INSTRUCTIONS

1. DON'T START ATTEMPTING THE PAPER UNTIL INSTRUCTED BY THE INVIGILATORS.
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 INTO THE ROOM.
10. THERE ARE FIVE CATEGORIES OF THE CONTEST AS UNDER:
  - A. TODDLERS (GRADE 1-2)
  - B. KIDS (GRADE 3-4)
  - C. JUNIORS (GRADE 5-6)
  - D. JUVENILES (GRADE 7-8)
  - E. ADOLESCENTS (GRADE 9-10 / O-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.CATSCONTESTS.ORG](http://WWW.CATSCONTESTS.ORG)
15. ANY ACADEMIC MISCONDUCT OR MALPRACTICE MUST BE REPORTED TO INTERNATIONAL CATS CONTESTS AT [INFO@CATSCONTESTS.ORG](mailto:INFO@CATSCONTESTS.ORG)

**Q1.** Which skull is probably from an animal that ate grass?



**Q2.** Which of the following is missing from this food chain?



**A** ticks

**B** wolves

**C** plants

**D** hawks

- Q3.** The pictures show the same amount of clay made into different shapes. Which piece will probably float the best?

**A****B****C****D**

(Not drawn to scale)

- 
- Q4.** 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

**Q5.** Steller's sea cow is an extinct species that was found in the Arctic waters in the 1700s. The sea cow skins were used to make boats. The sea cow's fat was used to burn in oil lamps and for food. What is the most likely reason that Steller's sea cow is extinct?

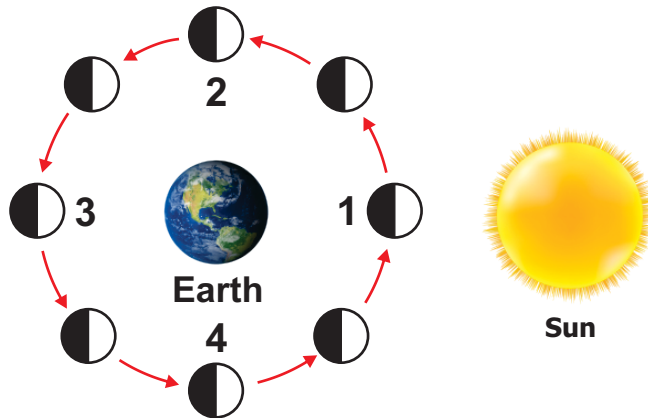
**A** Its food ran out.

**B** It was over-hunted.

**C** It became too warm.

**D** Its habitat was destroyed.

**Q6.** 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

**Q7.**

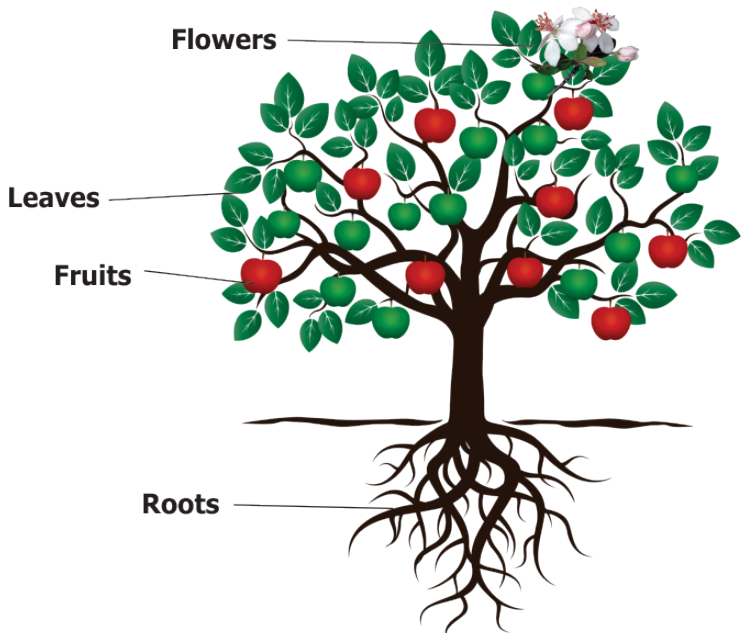
Study the drawing of a classroom investigation shown below.



What most likely caused the water on the table to evaporate?

**A** heat**B** wind**C** gravity**D** light**Q8.**

Plants need minerals to grow. Sometimes people help plants get these minerals by adding fertilizers. Identify the part of the plant that takes in the most minerals.

**A** Fruits**B** Roots**C** Leaves**D** Flowers

**Q9.** 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

**Q10.** An energy pyramid is shown below.

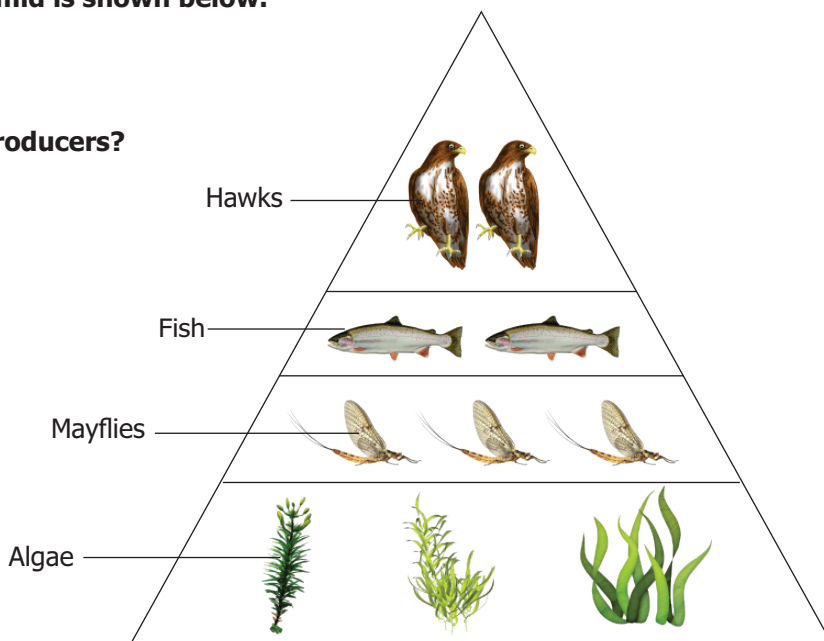
Which organisms are producers?

**A** Hawks

**B** Fish

**C** Mayflies

**D** Algae



- Q11.** A student rubbed a balloon on her head. The student then held the electrically charged balloon over some small pieces of paper.



What will most likely happen to the small pieces of paper?

- A** The pieces will stick to the table.  
**B** The pieces will scatter around the table.  
**C** The pieces will be attracted to the balloon.  
**D** The pieces will move away from the balloon.

- Q12.** Look at the groups in the below table carefully.

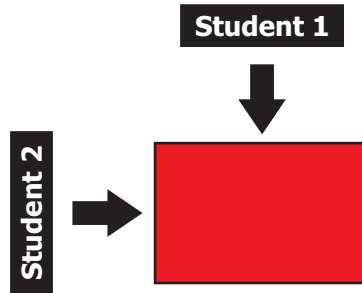
Plant Eater	Animal Eater
Bee	Lion
Giraffe	Tiger

If an animal 'P' can be placed in both the groups, which of the following animals can 'P' be?

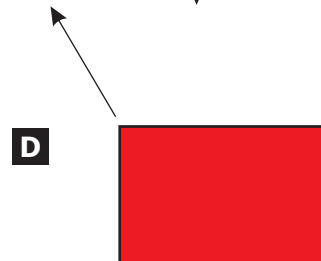
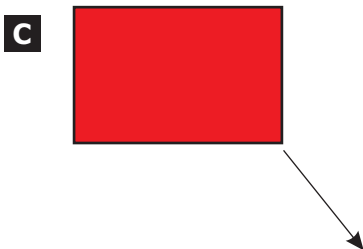
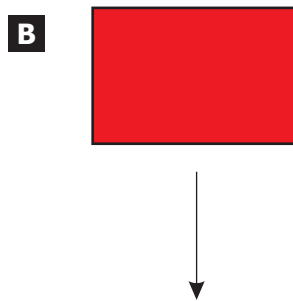
- A** Goat                      **B** Rabbit                      **C** Bear                      **D** Snake



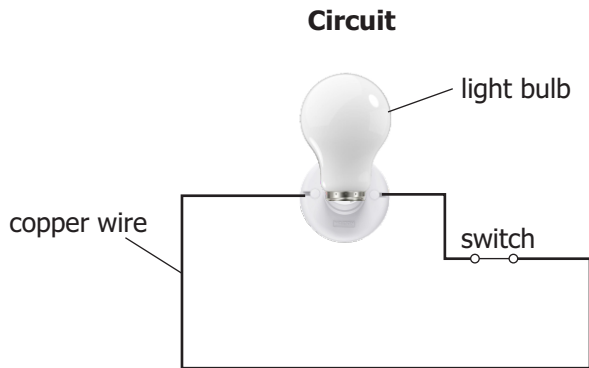
**Q13.** Two students want to push a heavy table across the room.



Both students will push the table at the same time with the exact same force.  
Which diagram below shows how the table will most likely move?



**Q14.** Use the diagram below to answer the question.



**Which change is necessary for this circuit to work?**

- A** Add a source of power.
  - B** Add a second light bulb.
  - C** Move the switch farther away from the light bulb.
  - D** Replace the copper wire with a different type of metal wire.
- 

**Q15.** The picture below show a frog.

**Frogs have many predators in their water environments. Which characteristic helps the frog swim fast?**

- A** the size of its eyes
- B** the shape of its feet
- C** the pattern on its skin
- D** the width of its mouth



**Q16.** 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.

**Q17.** A student left his lunch on a table outside in the sunlight. Which object will most likely get the hottest in the sunlight?

**A** metal fork

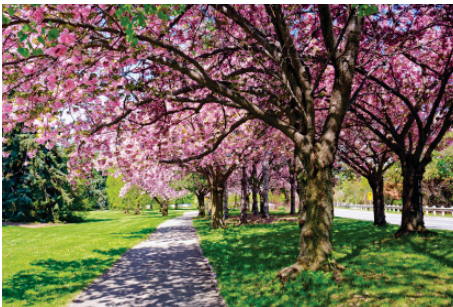
**B** plastic tray

**C** milk carton

**D** paper napkin

**Q18.** 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.

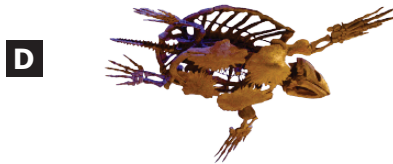
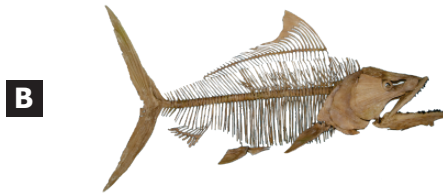
**C** System X is human-made, and System Y is natural.

**D** System X is natural, and System Y is human-made.

**Q19.** The picture below shows a bird.



Which fossil is most likely a relative of the bird?



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**Q20.** A bear will get energy from all of these except

**A** fish

**B** nuts

**C** fruits

**D** rocks

**Q21.** Which of the following does a young goat learn to do as it grows?

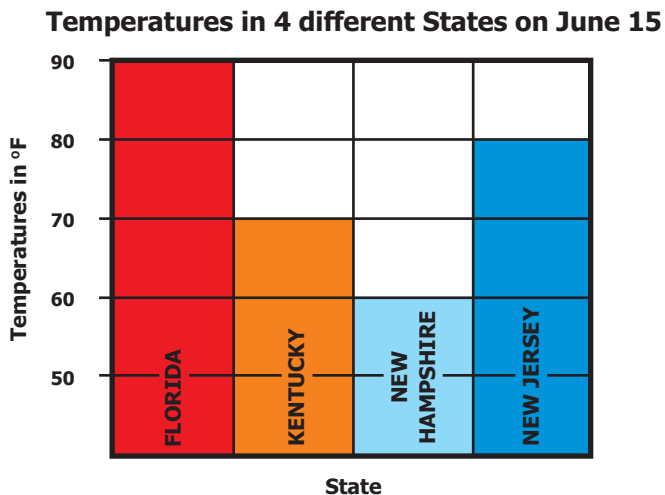
**A** shed its hair

**B** grow short horns

**C** find its own food

**D** develop thick hooves

**Q22.** The chart shows the weather in different states on one day.



**What type of clothes should Amin wear if he is going outside in New Jersey on this day?**

**A** a heavy coat and warm pants

**B** a light jacket and sweat pants

**C** a long sleeve shirt and pants

**D** a short sleeve shirt and shorts

**Q23.** Which of these best shows the position of the summer sun at noontime?

**A**



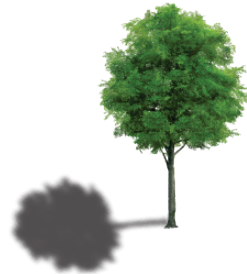
**B**



**C**



**D**



**Q24.** Which of the following statements are true about all birds?

- (i) They are covered with feathers.
- (ii) They can fly.
- (iii) They have beaks.
- (iv) They are plant and animal eaters.

**A** Only (i) and (iii)

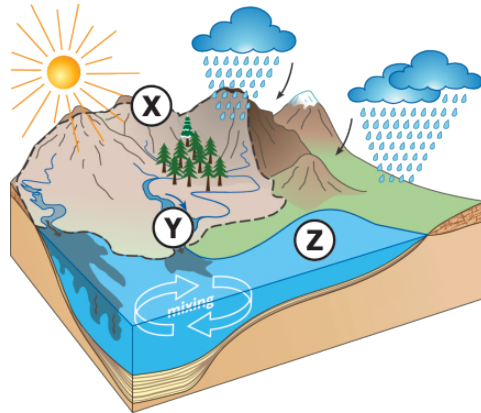
**B** Only (i), (ii) and (iv)

**C** Only (i) and (iv)

**D** All of these

**Q25.** Use the drawing and chart below to answer the question.

### Environment



### Features of an Environment

Feature	Student 1	Student 2	Student 3	Student 4
X	valley	mountain	valley	mountain
Y	peninsula	river	peninsula	river
Z	watershed	lake	lake	watershed

Which student correctly labelled the environmental features?

**A** student 1

**B** student 2

**C** student 3

**D** student 4









## ICATS English Linguistics Contest 2018 National Toppers

Student Name	Father Name	Grade	School	City
FIMAAAN TASSADDUQUE	ROSHAAN TASSADDUQUE	1	KOHINOOR GRAMMAR SCHOOL	FAISALABAD
MUSA NOOR	NOOR NABI	1	FOUNDATION MONTESSORI SCHOOL	BAHAWALPUR
ZAINA KHAN	MUNAWAR AHMED	1	BEACONHOUSE SCHOOL SYSTEM (BKI F-7/4)	ISLAMABAD
MALIK-AL-ASHTER	KHAN MURTAZA	2	MSB INSTITUTE-SHABBIRABAD	KARACHI
JAWAD ALI	MUHAMMAD ASSAD	2	JOINT STAFF PUBLIC SCHOOL AND COLLEGE CHAKLALA	RAWALPINDI
M. ASAD HUSSAIN	SYED M. ASIF HUSSAIN	2	USMAN PUBLIC SCHOOL SYSTEM (CAMPUS XVI)	KARACHI
HIJAB FATIMA	IRFAN QADIR	3	BEACONHOUSE ALLAMA IQBAL TOWN CAMPUS	LAHORE
ZAINEB NADEEM	NADEEM AFZAL	4	KOHSAR CHILDREN'S ACADEMY	MANSEHRA
MARIA FAISAL	FAISAL SALEEM	5	THE CITY SCHOOL GIRLS BRANCH SATELLITE TOWN	RAWALPINDI
IBRAHIM SALMAN	SALMAN RASOOL	6	LAHORE GRAMMAR SCHOOL FAISAL TOWN BRANCH	LAHORE
KHADIJA IMRAN	IMRAN MAGRANI	7	D. A PUBLIC SCHOOL (O/A LEVELS) SEAVIEW	KARACHI
LAIBA MASOOD	MASOOD ABBAS	8	USMAN PUBLIC SCHOOL SYSTEM (CAMPUS 1)	KARACHI
EMAAN IFTIKHAR	IFTIKHAR AHMAD	9	BEACONHOUSE SCHOOL SYSTEM PTC GIRLS BRANCH	GUJRANWALA
AYESHA NADEEM	MUHAMMAD NADEEM	10	USMAN PUBLIC SCHOOL SYSTEM (CAMPUS VIII)	KARACHI

## ICATS Mathematics Contest 2018 National Toppers

Student Name	Father Name	Grade	School	City
AMAN ALI AHMAD	MUHAMMAD WASIM	1	LAHORE GRAMMAR SCHOOL (LANDMARK PROJECT)	LAHORE
MIAN AZAAN MAQBOOL	DANISH MAQBOOL	2	ARMY PUBLIC SCHOOL GARRISON JUNIOR	LAHORE
SHAHEER AFZAL	JAVED AFZAL MARWAT	3	ARMY PUBLIC SCHOOL (TODDLERS ACADEMY)	PESHAWAR
MUHAMMAD AHMED	ASMAT ALI	4	ARMY BURN HALL SCHOOL AND COLLEGE (FOR GIRLS)	ABBOTTABAD
M. MURTAZA ZAIDI	BABER ALI	5	BEACONHOUSE ALLAMA IQBAL TOWN CAMPUS	LAHORE
RAJA SAAD ALI	RAJA AAMIR	6	HITEC SCHOOL & COLLEGE FOR BOYS CANTT	TAXILA
ZAID BIN HAROON	M. HAROON RAFIQUE	7	THE SCIENCE SCHOOL	RAWALPINDI
WALEED AHMED	M. ATIQ	8	KIPS SENIOR BOYS CAMPUS JOHAR TOWN	LAHORE
M. RAYAN ABID	M. ABID MUNEEER	9	SIR SYED SCHOOL AND COLLEGE (CAMPUS IV)	WAH CANTT
IMTIAZ KHAN	DADA KHAN	10	AGA KHAN HIGHER SECONDARY SCHOOL	GILGIT

Compete  
if you are the best