

ICATS SCIENCE CONTEST



2022 QUESTION BOOKLET

**GRADE 3 & 4
KIDS**

Time Allowed: 75 Mins.
Maximum Marks: 75



INTERNATIONAL
CATS CONTESTS

COMPETENCE & APTITUDE TESTING SERVICES

FASTEST GROWING CONTESTS IN PAKISTAN

ICATS SCIENCE CONTEST 2022

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 INVIGILATORS 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. 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
15. ANY ACADEMIC MISCONDUCT OR MALPRACTICE MUST BE REPORTED TO INTERNATIONAL CATS CONTESTS AT INFO@CATSCONTESTS.ORG

Q1. Fatima wants to present her friend a gift made of plant-fibre. Which out of the following will she select?

A Jute bag

B Woollen shawl

C Silk saree

D Nylon scarf

Q2. People living in coastal areas eat what kind of food?

A Rice and the meat of goat.

B Maize and Bajara.

C Wheat, pulses and rice.

D Rice and fish including other food items.

Q3. Ali is at school. It is a science lesson. Ali goes outside and collects minibeasts from under a log. He looks at them with a magnifying glass. What must Ali do when he has finished looking at them?



A Put the minibeasts in the bin

C Take the minibeasts home

B Put the minibeasts back under the log

D Wash the minibeasts down the sink

Q4. Ahmad 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?

A A clock with a second hand.

C A long stick with a brush on the end.

B A fan with different speeds.

D A thermometer with degrees Celsius.



Q5. A truckload of sand was delivered to the school playground. It rained for a week. The sand was no longer a hill. What probably happened to the sand?

A It eroded.

B It erupted.

C It fossilized.

D It evaporated.



Q6. Study the characteristics of P, Q, R and S in the given table.

	Ability to move from place to place	Needs water	Breathes	Grows
P	x	✓	✓	✓
Q	✓	✓	✓	✓
R	✓	✓	✓	x
S	✓	x	x	x

Which one is most likely to be a non-living thing?

A P

B Q

C R

D S

Q7. The following words are associated with which of the given sense organs?

Hot, Cold, Soft, Smooth, Rough, Hard



d



e



h



g



f

A d and e only

B e and g only

C h only

D h, e and f only



Q8. The cloth shown in the given picture did not absorb water at all when checked after a few minutes. What should be suitably made with this cloth?



A T-Shirt

B Floor mop

C Raincoat

D None of these

Q9. Naimat is blindfolded and he is asked to differentiate between a few pairs of items. Between which of the following pairs of items he cannot differentiate?

- A** A glass of orange juice and a glass of plain water
- B** A piece of red and a piece of blue cloth
- C** A round ball and a rectangular box
- D** An empty piggy bank and a piggy bank with some coins in it

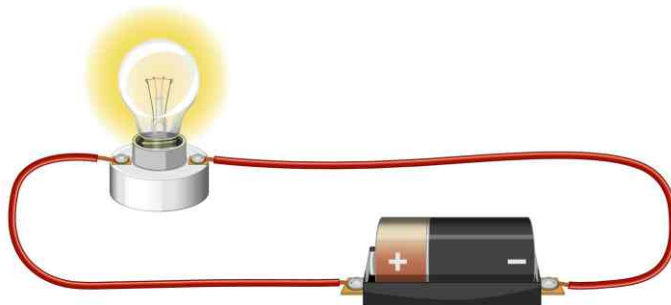


Q10. How does a dog express happiness?

- A** Twitching ears
- B** Moving head
- C** Closing eyes
- D** Wagging tail

Q11. This is a very simple electrical circuit. A wire goes from the battery to the bulb. Another wire goes from the bulb back to the battery.

Ahmad takes away one of the wires. What happens to the bulb?



- A** The bulb stays on
- B** The bulb blows up
- C** The bulb does not light up
- D** The bulb melts

Q12. Fatima wants to watch a show on the telly. She presses the button on the remote control to turn on the television. But nothing happens. What is most probably wrong?



A The TV show has finished.

C The batteries in the remote control need replacing.

B She has the wrong channel.

D She has the wrong day.



Q13. A student sweeps up dirt with small pieces of leaves.



What is the best way to remove all the leaves from the dirt?

A Filter the mixture through a screen.

C Stir the mixture with a spoon.

B Run a magnet through the mixture.

D Add water to the mixture.

Q14. A student wants to know what types of clouds are in the sky during different types of weather. Which investigation should the student complete to answer this question?

A Observe the clouds in the sky during rainy, sunny, and snowy weather

B Observe the clouds in the sky during three days of sunny weather

C Observe the clouds in the sky during a rainstorm

D Observe the clouds in the sky during two days of snowy weather



Q15. A student wants to help conserve trees. Which activity should the student choose?

A Washing laundry in hot water

B Turning on an air conditioner

C Using wind energy

D Recycling paper



Read the paragraph. Then answer the question.

There are more than 1,000 volcanoes on Earth. Many of these volcanoes are on land. Some are in the middle of continents. Others are located along coasts. You can even find volcanoes on islands in the middle of the ocean.

continent: one of the seven big land areas on Earth

island: a small piece of land that has water on all sides

Q16. Based on the paragraph, which sentence is true?

A Volcanoes can be found far away from the ocean.

B About 1,000 volcanoes erupt each year.

C Most islands have volcanoes on them.

D None of these.

Q17. Why is it not a good idea to fill your plate with foods that are all the same color?

A Having foods of a variety of colors shows that the meal contains a variety of nutrients

B Foods that are all the same color are unhealthy

C A variety of colors shows that your meal is low-fat

D Your plate will look better with lots of different foods



Q18. This man is polishing a car with a machine. The car will be:



A Rougher and shinier

B Harder and duller

C Smoother and shinier

D Softer and shinier

- Q19.** Scientists measure how strong the wind is. Natasha recorded how strong the wind was every day. She wrote down: None, Breeze, Windy, Gale, or Storm. Which is the strongest wind?



A Breeze

B Windy

C Gale

D Storm

- Q20.** Water and ketchup are each poured onto a tray from two separate bottles. The charts below represent the amount of time it takes each liquid to flow from the top to the bottom of the tray.

Water Data

Trial #	Time (sec.)
1	2
2	3
3	2

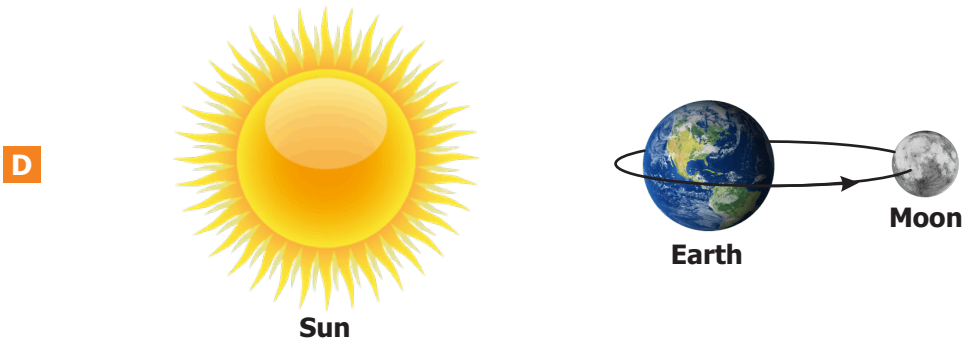
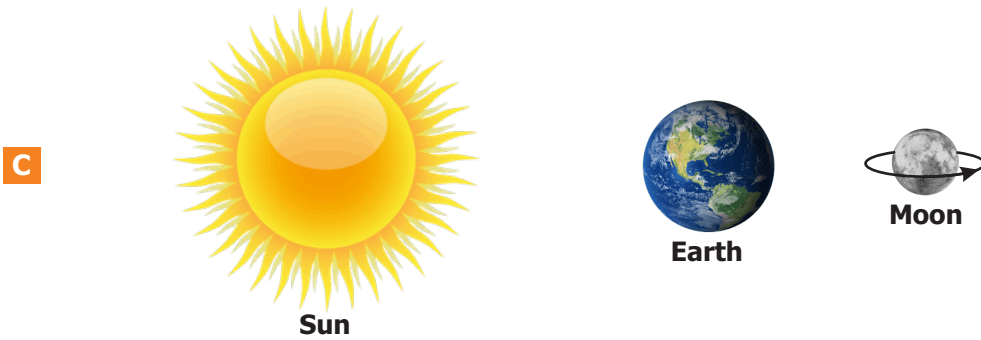
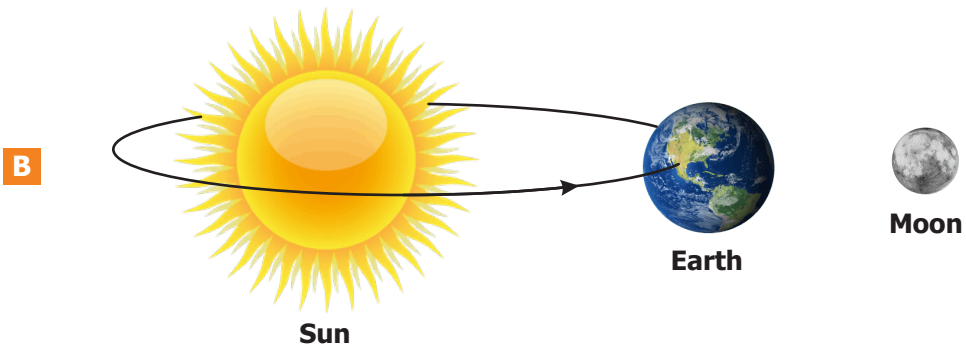
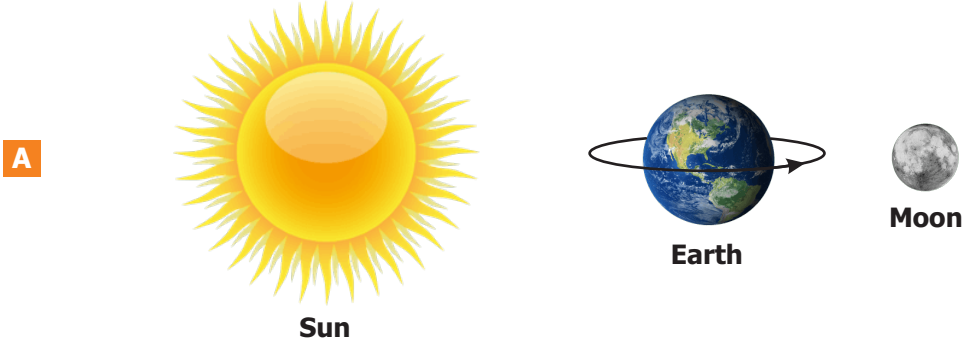
Ketchup Data

Trial #	Time (sec.)
1	35
2	35
3	40

What conclusion is best supported by the data?

- A** Thicker liquids take longer to travel to the bottom of a tray.
- B** Thicker liquids take less time to travel to the bottom of a tray.
- C** Liquid with sugar crystals travels to the bottom of a tray faster.
- D** Liquid with a darker color travels to the bottom of a tray faster.

Q21. Which diagram best represents one day on Earth?



Q22. This picture was taken high above Earth's surface. It shows Hurricane Isabel over the southeastern United States and the Gulf of Mexico.

In the picture, you can see green land, dark blue water, and the white spiral-shaped clouds of the hurricane.

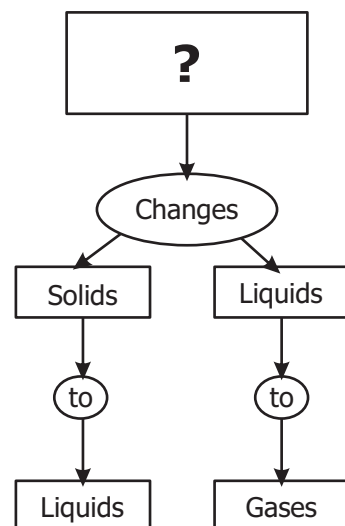
What is true about hurricanes?

- A** Hurricanes can be found only over ocean water.
- B** Hurricanes can be found only over land.
- C** Hurricanes are large spiral-shaped storms.
- D** All of the above.



Q23. Which of these best completes this concept map?

- A** Magnetism
- B** Heat
- C** Sound
- D** Freezing



Q24. Which system warns a person that soup is too hot to eat?

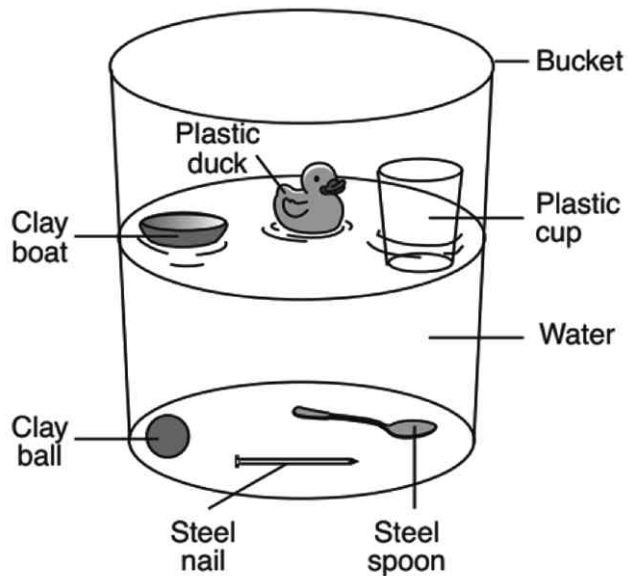
A Digestive system

B Nervous system

C Muscular system

D Circulatory system

Q25. A group of students completed a float or sink experiment. They put six objects into a bucket of water. The objects were made of three different materials: clay, plastic, and steel. The diagram below shows the results of the experiment.



Which material always sank in this experiment?

A clay

B plastic

C steel

D None of the these.

Blank Page

Congratulations

ICATS Art Contest 2022 National Toppers

Student Name	Father Name	Grade	School
HUMNA NADIR	M. NADIR IKRAM	1	FOUNDATION PUBLIC SCHOOL
HAIDER ALI	ALI MUSHTAQ	2	ARMY PUBLIC SCHOOL & COLLEGE
MUHAMMAD YOUSAF	KAMRAN ASHRAF	3	KOHSAR CHILDREN'S ACADEMY
MUHAMMAD ZAID	M. SOHAIB NIZAMI	4	GENERATIONS SCHOOL
HANIA ABID	MRS. ASMA LATIF	5	FATIMA FERTILIZER SCHOOL
RUQAIYAH ALI ASGHER	ALI ASGHER KHAMBATWALA	5	MSB EDUCATIONAL INSTITUTE
RAMISHA ALI	ABID ALI MUGHAL	6	GOVT. QUEEN MARY GRADUATE COLLEGE
SYEDA FATIMA SURIYA	SYED TAHIR HUSSAIN	7	BEACONHOUSE SCHOOL SYSTEM
MANAL ARSHAD	MUHAMMAD ARSHAD	8	HABIB GIRLS SCHOOL
MARYAM SHAHID	SHAHID IQBAL	9	BAHRIA COLLEGE
AREEBA KHAN	DURAIZ KHAN	10	PRESENTATION CONVENT HIGH SCHOOL

ICATS Creative Writing Contest 2022 National Toppers

Student Name	Father Name	Grade	School
HASSAN WASEEM	M. WASEEM	1	PAKISTAN INT'L PUBLIC SCHOOL
M. AFNAN SUFDER	SUFDER HUSSAIN	2	ARMY PUBLIC SCHOOL AND COLLEGE SYSTEM
FATIMA NOOR	BILAL YOUSAF	3	LAHORE GRAMMAR SCHOOL
M. ABDULLAH HASSAN	RIZWAN AHMAD	3	LAHORE GRAMMAR SCHOOL
SHANZAY ADNAN	ADNAN FAROOQ	3	ARMY PUBLIC SCHOOL
PRATIK PARKASH	PARKASH LAL	4	THE CITY SCHOOL
DANIYAL SHAHZAD	SHAHZAD ASLAM	5	LAHORE GRAMMAR SCHOOL
HASSAN ALI	IMRAN ALI SHAH	6	ARMY PUBLIC SCHOOL & COLLEGE
MAIDA SOHAIL	SOHAIL AKRAM	7	BEACONHOUSE SCHOOL SYSTEM
ATIYA ATIF	MUHAMMAD ATIF NAZAR	8	ROOTS IVY INTERNATIONAL SCHOOL
AYESHA HAFEEZ	CH. GHULAM HAFEEZ	8	ISLAMABAD COLLEGE OF ARTS & SCIENCES
PARTHAM KUMAR	DOULAT RAM	9	AGA KHAN HIGHER SECONDARY SCHOOL
AMNA HUSNAIN	SYED ALI ZAFAR	10	AES SCHOOL FOR GIRLS
RASIKH JAVED	M JAVED	10	BAHRIA FOUNDATION COLLEGE

Compete
if you are the best