



INTERNATIONAL CATS CONTESTS

COMPETENCE & APTITUDE TESTING SERVICES

FASTEST GROWING CONTESTS IN PAKISTAN

QUESTION BOOKLET



ICATS
SCIENCE
CONTEST 2019

**GRADE 1 & 2
(TODDLERS)**

Time Allowed: 75 Mins
Maximum Marks: 60

ICATS SCIENCE CONTEST 2019

TODDLERS (GRADE 1 & 2)

TIME ALLOWED : 75 MINUTES

MAXIMUM MARKS : 60

TOTAL QUESTIONS : 20 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 / ANSWERSHEET.
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
15. ANY ACADEMIC MISCONDUCT OR MALPRACTICE MUST BE REPORTED TO INTERNATIONAL CATS CONTESTS AT INFO@CATSCONTESTS.ORG



Q1. Botanists identify violets by their flowers and leaves.
A common blue violet is shown above.

Which plant shown below is another type of violet?

A



C



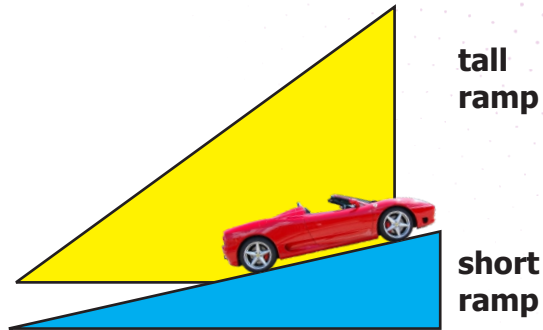
B



D



Q2. The picture below shows the equipment used in an experiment to determine the effect of ramp height on the total distance a toy car travels.



The students performed four steps in their experiment:

- 1 | Put the car at the top of the shorter ramp.
- 2 | Let the car go until it stops.
- 3 | Measure the distance the car traveled.
- 4 | Record the distance in a chart.

Which step should be completed next?

- A | Decide which ramp will make the car go farther.
- B | Place the card at the top of the taller ramp.
- C | Put a new surface on the ramp.
- D | Change the wheels on the car.

Q3. A very large redwood tree is measured to be about 100 units tall. Which unit is the most appropriate to use?

A | millimeters

B | centimeters

C | meters

D | kilometers

Q4. The safety equipment shown below is used in situations involving



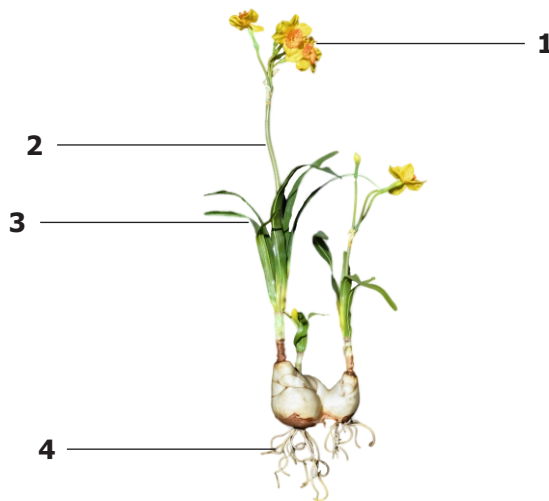
A | chemical spills.

B | fire.

C | broken glass.

D | physical injuries.

Q5. Which letter in the diagram below points to the plant structure that takes in water and nutrients?



A | 1

B | 2

C | 3

D | 4

Q6. Which food is a fruit?

A | a potato

B | an onion

C | a carrot

D | a pumpkin

Q7. In which environment would a white rabbit be best protected from predators?

A | a shady forest

B | a snowy field

C | a grassy lawn

D | a muddy riverbank

Q8. A mother hen clucks loudly when danger is near and her chicks quickly gather around her. Which sense helps the chicks receive this warning about danger from their mother?

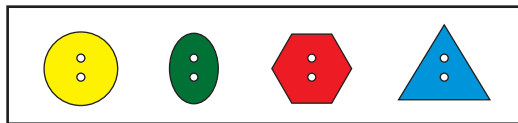
A | smell

B | taste

C | sight

D | sound

Q9. A group of buttons is shown in the diagram below.



Which button belongs with the group of buttons shown above?

A



B



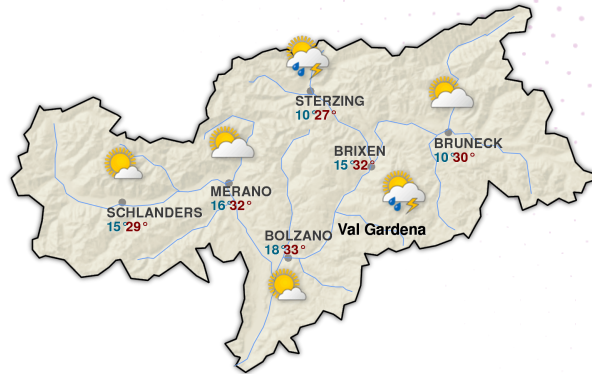
C



D



Q10. Which information is contained on this map of the United States?



A | state capitals

B | mountain ranges

C | weather conditions

D | animal populations

Q11. The thermometers below show the temperature of a liquid at the beginning and at the end of an experiment.

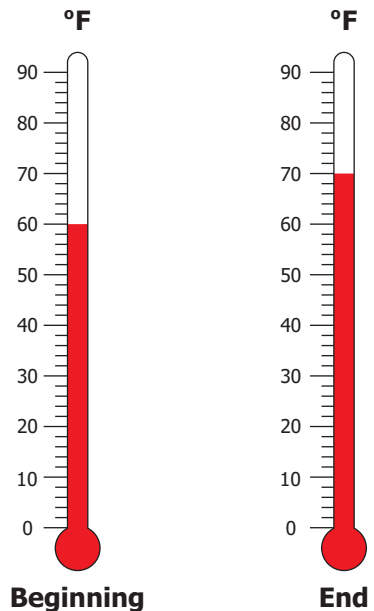
How did the temperature of the liquid change from the beginning to the end of the experiment?

A | It went down 4°F.

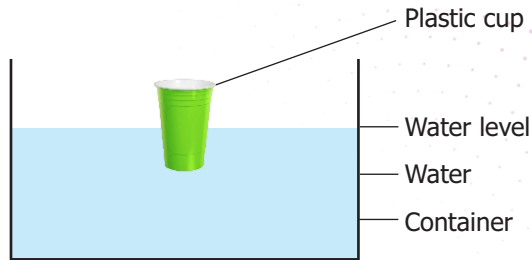
B | It went down 8°F.

C | It went up 2°F.

D | It went up 10°F.



Q12. The diagram below shows a plastic cup floating in a container of water.



If some marbles are placed in the cup, the water level will

A | decrease

C | remain the same

B | increase

D | decrease to half of the current level

Q13. An example of a poor health habit is

A | taking a bath or shower regularly

C | playing on a soccer team

B | handwashing after using the bathroom

D | eating candy instead of lunch

Q14. The diagram shows a human body system.

What are two of the functions performed by this body system?

A | protects and supports the body

B | produces and transports oxygen within the body

C | produces and excretes waste products

D | controls and coordinates body activities



Q15. Which characteristic helps a fox to find food?

A | sense of smell

B | thick fur

C | long tail

D | pointed teeth



Q16. The diagram below shows several objects. Which objects in the picture are nonliving?



A | tree and rope

B | tire and rope

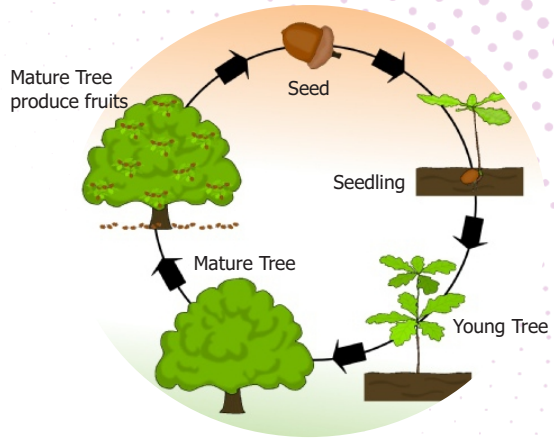
C | grass and tire

D | grass and tree

Q17. The diagram below shows the growth of a tree.

This diagram represents a











- A** | food chain
- B** | food supply
- C** | life span
- D** | life cycle



(Not drawn to scale)

Base your answers to questions 18 through 20 on the chart below and on your knowledge of science. The chart shows the life span of several organisms.

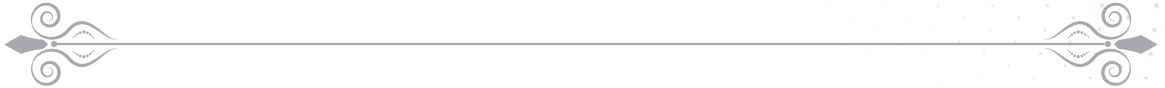
Life Span of Several Organisms

Pine trees					 Cedar of Lebanon	 Bristlecone pine
Flowering plants		 Common poppy	 Foxglove			 English oak
Arthropods (includes insects)	 Housefly	 Butterfly		 American lobster		
Mammals			 Red fox	 African elephant		
	1-30 days	1-12 months	1-10 years	10-100 years	100-1,000 years	Over 1,000 years

(Not drawn to scale)

Q18. What is the life span of an organism?

- A** | the stages of development of the organism
- B** | the length of time the organism lives
- C** | the basic needs of the organism
- D** | the life processes the organism performs



Q19. The life span of an African elephant is between

- A** | 1 minute and 1 day
- B** | 1 year and 10 years
- C** | 10 years and 100 years
- D** | 100 years and 1,000 years



Q20. Which organism has the longest life span?

- A** | red fox
- B** | common poppy
- C** | American lobster
- D** | bristlecone pine

Blank Page

Blank Page

ICATS English Linguistics Contest 2019 National Toppers

Student Name	Father Name	Grade	School	City
AMATULLAH	ADNAN	1	MSB EDUCATIONAL INSTITUTE	KARACHI
MUHAMMAD MOHSIN	WAHEED SHEHZAD	1	RANGERS PUBLIC SCHOOL FOR BOYS	LAHORE
ZAIN-UL-ABIDIN	INAM-ULLAH	2	ARMY PUBLIC SCHOOL GARRISON JUNIOR	LAHORE
MUHAMMAD ASIS JAVED	MUHAMMAD SHAHEER JAVED	3	THE CITY SCHOOL CHASHMA BRANCH	MIANWALI
AYESHA SIDDIQUI	M. ASHRAF UL KABIR SIDDIQUI	4	THE CITY SCHOOL GULSHAN JUNIOR CAMPUS	KARACHI
AYESHA FAISAL	FAISAL EHSAN	5	LAHORE GRAMMAR SCHOOL LANDMARK PROJECT	LAHORE
ASAD IMRAN	M. IMRAN	6	THE CITY SCHOOL CANTT CAMPUS II	QUETTA
MANAAL TARIQ	DR. TARIQ MEHMOOD	7	THE CITY SCHOOL GIRLS CAMPUS	SIALKOT
FIZZA RIZVI	ALI ABBAS RIZVI	8	HABIB GIRLS SCHOOL	KARACHI
LAMISAH BEHRAM KHAN	BEHRAM BASHIR KHAN	9	LAHORE GRAMMAR SCHOOL	ISLAMABAD
FAIZ UL HASSAN GILANI	GHULAM UL HUSSAIN GILANI	10	THE CITY SCHOOL TOWN SENIOR SECTION	PESHAWAR

ICATS Mathematics Contest 2019 National Toppers

Student Name	Father Name	Grade	School	City
HIBA MALIK	BILAL MALIK	1	KOHSAR CHILDREN'S ACADEMY	MANSEHRA
DURYAB ZAHRA	MUHAMMAD RASHID	1	BEACONHOUSE HAFIZABAD	HAFIZABAD
ABDUL RASHEED	ABDUL WAHEED	2	ARMY PUBLIC SHOOOL & COLLEGE SYSTEM SADDAR CAMPUS	KARACHI
BURHANUDDIN	M. ALI ASGHER SAMIWALA	2	MSB EDUCATIONAL INSTITUTE	KARACHI
M. HUMMAS	M. SHAKIL	3	DEFENCE HOUSING AUTHORITY COLLEGE AND SCHOOL SYSTEM	KARACHI
EHAN QURESHI	ASSADULLAH QURESHI	4	FFC GRAMMAR SCHOOL AND COLLEGE	MIRPUR MATHELO
MAHAD ABID	M. HARIIS UMER	5	THE CITY SCHOOL CHENAB CAMPUS	FAISALABAD
UROOJ AJMAL	AJMAL IBRAHIM	6	KIPS SCHOOL	LAHORE
MUHAMMAD SALAMAT	SADAT MEHMOOD	7	GARRISON ACADEMY TUFAIL SHAHEED CAMPUS (SENIOR)	LAHORE
ABDULLAH JUNAID KHAN	ABDUL RAUF	8	THE SCIENCE SCHOOL	ISLAMABAD
SAAD ALI HASSAN	ABDUL HAYEE	8	THE SCIENCE SCHOOL	RAWALPINDI
DANIYAL KALEEM SHEIKH	MUHAMMAD KALEEM	9	ROOTS IVY INTERNATIONAL SCHOOL IB CAMPUS	RAWALPINDI
AHMED ALI	AUN ALI	10	MSB EDUCATIONAL INSTITUTE	KARACHI

COMPETE if you are
the **BEST**