



श्री Venkateshwar International School

Sector-18, Dwarka, New Delhi-78

SAT
MAIN (2018-19)
Class VII

Time Allowed: 1 hr 15mins

Total M.M-60

English _____ **Math** _____ **Science** _____ **Total (60)** _____

Name of student _____

School Code _____

Class _____

Section-A (English)

M.M : 20

Directions for Q1-Q5: Read the passage and then choose the most appropriate answer for each of the given questions.

Once upon a time, everybody studied science for their amusement and excitement. All of us, as children, are scientists too - testing substances on our tongues, discovering gravity, seeing patterns in the stars, wondering what makes the night scary and the sky blue.

Partly, because the educational system has taught science only in a reductionist, left brain style and partly because of society's demands for practical applications of technology, the love of science fades quickly for most youngsters. Those who love nature but dislike dissecting small animals soon learn to avoid high school biology. Students who enroll in psychology courses, hoping to learn something about how people think and feel, find themselves more about rats and statistics than they ever wanted to know.

Q1. According to the author, all children are scientists because _____.

- a) they are amused and excited by science
- b) they are curious about some things
- c) they are taught science in school
- d) they enjoy peeping into things, tasting and wondering

Q2. Children do not enjoy biology in school because _____.

- a) they are made to study technology
- b) they are forced to dissect animals
- c) it is taught in a boring manner
- d) it is not taught in a thrilling, interesting and enthusiastic way

Q3. According to the author, a psychology course should focus on _____.

- a) the study of rats
- b) problems in statistics
- c) an analysis of nature
- d) understanding human beings

Q4. The educational system has taught science only in a reductionist manner. Here, the word 'reductionist' means _____.

- a) a person who is a psychologist
- b) someone who believes in a pragmatic approach
- c) someone who dislikes dissecting animals
- d) someone who analyses a complex phenomenon in terms of fundamental constituents.

Q5. The love of science diminishes in the eyes of the young learners because _____.

- a) society wants to apply technology in a practical manner
- b) science appears to be difficult and boring
- c) only old school teachers teach science using primitive methodology
- d) study of science involves a pessimistic approach

Out of the options given, choose the alternative which best expresses the meaning of the idiom/phrase

Q6. He was red in the face from all of the mistakes he had made in his life.

- a) felt excited
- b) was angry
- c) suffered from embarrassment
- d) felt jealous

Q7. Let's not talk shop outside office hours.

- a) to gossip
- b) to talk reasonably
- c) to talk about business or professional affairs
- d) to abuse someone

In questions 8 and 9, choose the most appropriate option, which can be substituted for the given phrase.

Q8. A harsh discordant mixture of sounds like the deafening sound of alarm bells.

- a) din
- b) lull
- c) euphony
- d) melody

Q9. A person who is related to study of codes is called

- a) cryptographer
- b) metallurgist
- c) agronomist
- d) gemologist

Q10. In the following question four sentences are given. They may/may not be in the correct sequence. Arrange P, Q, R, S to make a meaningful sentence.

P: who had studied in India

Q: in my visits to various African countries

R: and had found memories of their stay here

S: I felt delighted when I met high ranking politicians and officials

- a) QSPR
- b) QPSR
- c) QRSP
- d) QSRP

Direction for Q11 and Q12: Out of the options given, choose the word/ phrase which can substitute the underlined part of the sentence. If the sentence is correct, mark your answer as 'No Improvement'.

Q11. His face softened into a smile that invaded his eyes.

- a) brightened
- b) deepened
- c) mellowed
- d) no improvement.

Q12. Judge the right word.

The criminal seems to have acted in _____ with three others.

- a) collision
- b) collusion
- c) cohesion
- d) coalition

In questions Q13 and Q14, choose the option closest in meaning to the given word.

Q13. TURNCOAT

- a) scamp
- b) traitor
- c) journalist
- d) judge

Q14. PLUSH

- a) tasty
- b) luxurious

- c) delicious
- d) destitute

Directions for Q15 and Q16: Find the relation in the sentences that follow.

Q15. Glutton is related to eat as garrulous is related to _____.

- a) walk
- b) talk
- c) laugh
- d) travel

Q16. Author is related to book as choreographer is related to _____.

- a) drama
- b) ballet
- c) opera
- d) masquerade

In Q17 and Q18, choose the option which is the antonym of the head word.

Q17. ANTIPATHY

- a) aversion
- b) evasion
- c) agreement
- d) fondness

Q18. ASCETICISM

- a) chastity
- b) renunciation
- c) sobriety
- d) indulgence

Directions for Q19 and Q20: Each question has a pair of words in capital letters. The pair is followed by four more words marked as (a), (b), (c) and (d). Select an option in which the words are related to each other in the same way as the capitalised pair.

Q19. PILFER:STEAL :: _____: EQUIP

- a) Return
- b) Damage
- c) Exercise
- d) Furnish

Q20. FETISH:FIXATION ::SLIGHT:_____.

- a) Flirt
- b) Sloth
- c) Insult
- d) Confuse

SAT
Main (Class – VII)
Section - B (Mathematics)

M.M : 20

Name of the Student : _____

Marks Obtained: _____

Q1. By which number is $5^2 - 3^2$ divisible?

- a) 5 b) 3 c) 8 d) 12

Q2. Find the area of a square whose diagonal is 4 cm.

- a) 16 cm^2 b) 8 cm^2 c) 2 cm^2 d) None of these

Q3. Which of the following number sentences is closest to $593 \div 27$?

- a) $500 \div 20$ b) $500 \div 30$ c) $600 \div 20$ d) $600 \div 30$

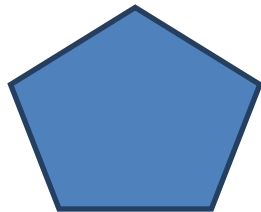
Q4. \diamond is a number less than 10. The sum of \diamond and 10 is _____.

- a) equal to $10+10$ b) less than $10+10$
c) greater than $10+10$ d) cannot say as the value of \diamond is not given.

Q5. When a number \spadesuit is divided by 22, the quotient is 74 and the remainder is 0. What will be the quotient when \spadesuit is divided by 11?

- a) 0 b) 37 c) 63 d) 148

Q6. What is the minimum number of triangular tiles required to make the shape shown below?



- a) 2 b) 3 c) 4 d) 5

Q7. Simplify $27 - [18 - \{16 - (5 - \overline{4-1})\}]$.

- a) 25 b) 24 c) 23 d) None of these

Q8. Aman, Dev, Riya and Rahul planned to meet in a park. The following is known about their arrival timings.

(i) The only person who arrived before Aman was Rahul.

(ii) When Dev arrived, she saw Riya waiting in the park.

Who among them arrived before Dev?

- a) only Riya b) only Rahul
c) only Riya and Rahul d) all – Riya, Rahul and Aman

- Q9.** Manya hired a taxi to go to the zoo. She picked up Akanksha on the way. When she reached Akanksha's house, the meter reading showed Rs. 120. When they reached the zoo, the meter reading showed Rs. 180. If the taxi charges Rs. 10 per km, what is the distance between Akanksha's house and the zoo?
- a) 6 km b) 12 km c) 18 km d) 30 km
- Q10.** A batch of 26 television sets are being checked by two supervisors. Both start from the same end. One supervisor checks every 2nd set and puts a blue mark on it. Another supervisor checks every 3rd set and puts a green mark on it. How many television sets will have both a blue and a green mark on them?
- a) 4 b) 8 c) 13 d) 21
- Q11.** Aryan has 20 marbles and $\frac{1}{2}$ of his marbles are red. Akshay has 40 marbles and $\frac{1}{4}$ of his marbles are red. They put all their marbles together. What fraction of the total marbles is red now?
- a) $\frac{1}{6}$ b) $\frac{1}{3}$ c) $\frac{1}{2}$ d) $\frac{3}{4}$
- Q12.** Raj had some balloons with him. From this, 6 balloons drifted away. What he has now is only $\frac{1}{3}$ of the initial number of balloons. Find the number of balloons that Raj had initially.
- a) 2 b) 9 c) 12 d) 18
- Q13.** Rajat thinks of an integer between -30 and -20. He subtracts another integer from this and gets a positive integer as the answer. Which of these could be the integer he subtracted?
- a) -34
b) -17
c) 37
d) He cannot get a positive integer on subtraction.
- Q14.** Priya and Pari bought identical buns. Priya divided her bun into 6 equal pieces and ate 2 of the pieces. Pari divided her bun into 9 equal pieces and ate some of them. How many pieces did Pari eat if she ate the same quantity of bun as Priya?
- a) 2 b) 3 c) 5 d) 6
- Q15.** \clubsuit is a number less than 10. The product $2 \times 303 \times 71 \times \clubsuit$ has 0 at its ones place. (The product is not equal to 0.) Which of the following could be \clubsuit ?
- a) 0
b) 2
c) 5
d) It is not possible to get 0 at ones place of the product.

Q16. Identify the rule and find the missing number in place of the question mark.

5	11	96
3	6	69
8	17	?

- a) 225 b) 165 c) 185 d) 250

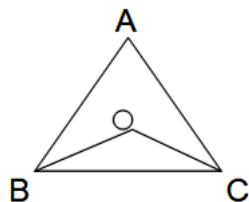
Q17. A man walks 3 km northwards and then turns left and goes 2 km. He again turns left and goes 3 km. He turns right and walks straight. In which direction is he walking now ?

- a) East b) West c) North d) South

Q18. A man was n years old in the year n^2 . How old was he in 1936?

- a) 44 b) 38 c) 28 d) 24

Q19. In the given isosceles $\triangle ABC$, the bisectors of $\angle B$ and $\angle C$ meet at a point O . If $\angle A = 40^\circ$, then find $\angle BOC$.



- a) 70° b) 110° c) 30° d) None of these

Q20. An electronic device makes a beep after every 60 seconds. Another device makes a beep after every 62 seconds. They beeped together at 10 a.m. The time when they will next make a beep together at the earliest is _____.

- a) 10:30 a.m. b) 10:31 a.m. c) 10:28 a.m. d) None of these.

SAT
Main (Class – VII)
Section - C (Science)

M.M : 20

Name of the Student : _____

Marks Obtained: _____

Q1. Raman and Suman are making a slide show presentation. The topic of the presentation is, “The Effects of Movement in the Lithosphere.” Which of these slides would most likely be included in their presentation?

- a) Volcano
- b) Hurricane
- c) Tornado
- d) Sun spots

Q2. Why are different constellations of stars seen during different seasons?

- a) Earth is on a different side of the sun during each season.
- b) Seasonal changes in the magnetic poles create the northern lights, which block the view.
- c) The Milky Way revolves to a different position with each season.
- d) Constellations move around the sun during different seasons.

Q3. Wind occurs when air masses move from one place to another. What causes the movement of air masses?

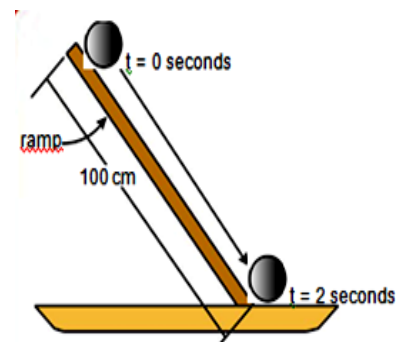
- a) The position of moon
- b) The heating of the air
- c) The rotation of Earth
- d) The condensation the of air

Q4. Which of the following will form the Fossil?

- a) Heart
- b) Kidney
- c) Eye
- d) Tooth

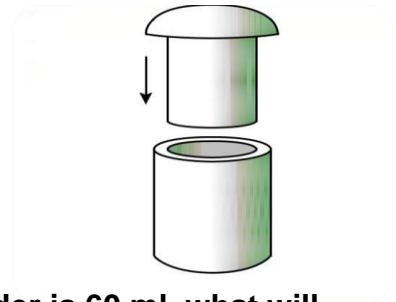
Q5. In 2 seconds, a ball travels 100 cm. What is the speed of the ball?

- a) 25 cm/sec
- b) 50 cm/sec
- c) 100 cm/sec
- d) 200 cm/sec



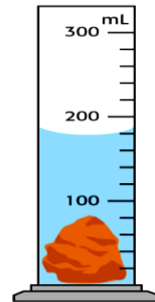
Q6. You need to put a metal rod into a hole in a metal cylinder. It is too tight. Which would be the best strategy to make the rod fit?

- a) Heat the rod and cylinder.
- b) Cool the rod and cylinder.
- c) Heat the rod and cool the cylinder.
- d) Cool the rod and heat the cylinder.

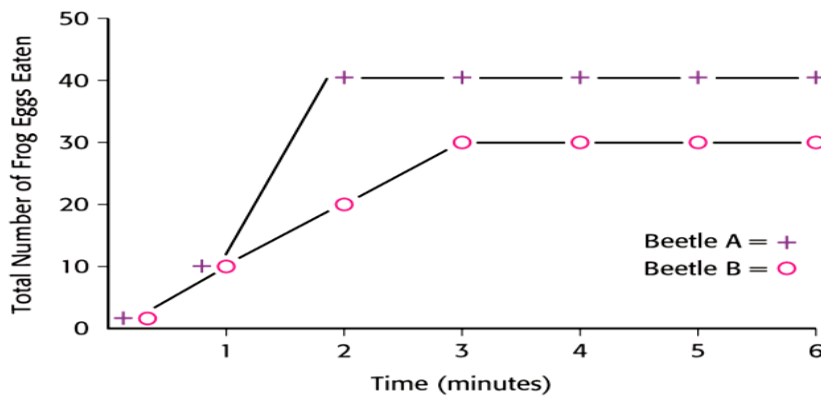


Q7. If the volume of the rock immersed in the graduated cylinder is 60 ml, what will the level of the water be after the rock is removed?

- a) 130 ml
- b) 90 ml
- c) 120 ml
- d) 150 ml



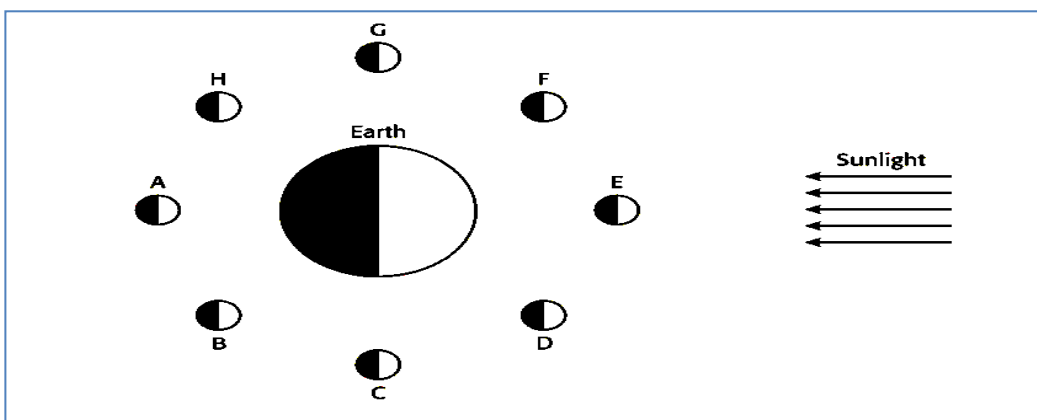
Q8. An experiment was conducted to determine the feeding rate at which two different water beetles eat frog eggs. The data are shown in the following graph.



How many frog eggs did Beetle B eat in the first 4 minutes?

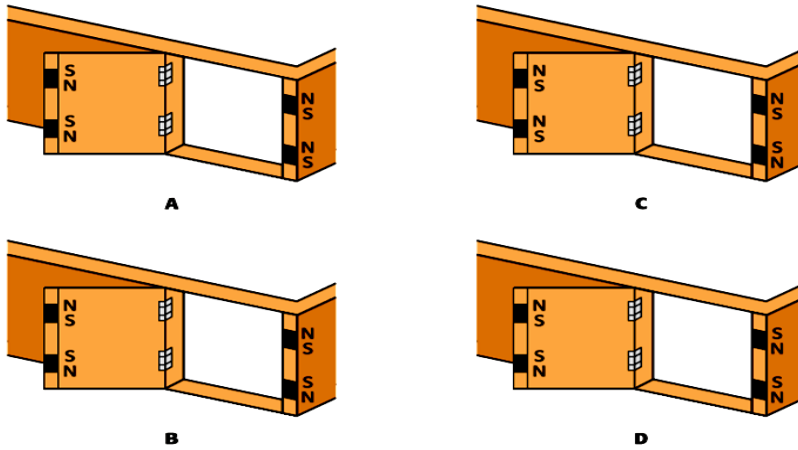
- a) 20
- b) 30
- c) 40
- d) 60

Q9. As seen from Earth, at which position would the moon appear to be full?

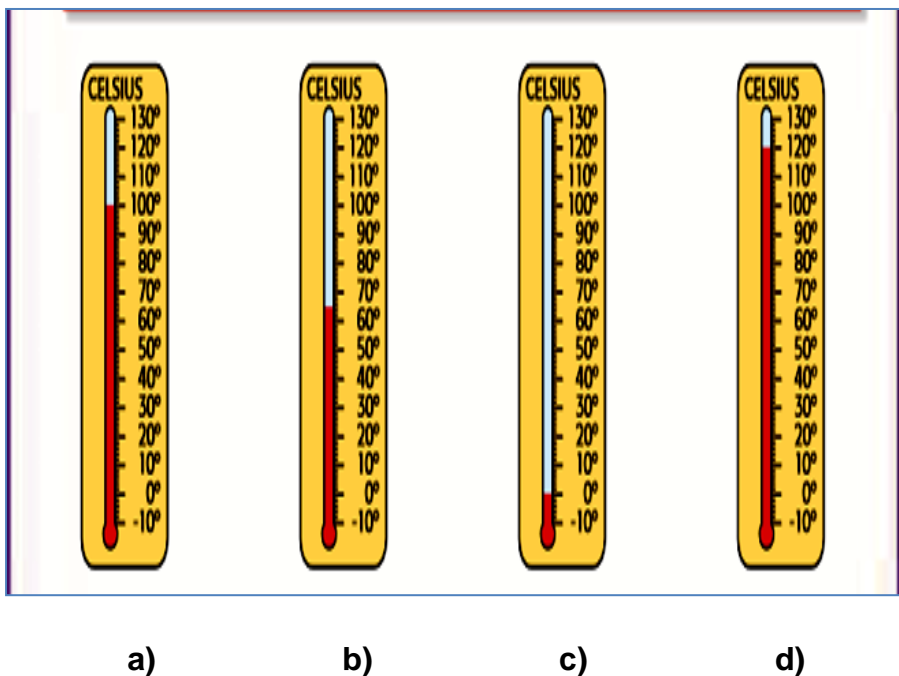


- a) Position A
- b) Position B
- c) Position C
- d) Position D

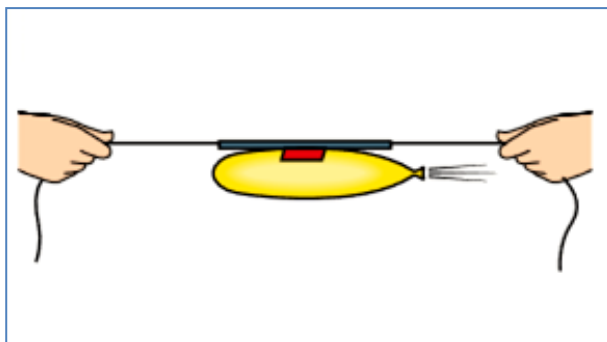
Q10. Which pole arrangement of the four magnets will hold the cabinet door shut most tightly when it is closed?



Q11. Ryan and Dolly boiled some water in a beaker. Then they turned off the heat source and added five ice cubes to the water. Which of these thermometers shows what most likely happened to the temperature of the water after ten minutes?



Q12. A lab group is given 5 meters of string, a drinking straw, a balloon, and tape. The group uses these materials to demonstrate rocket motion as shown below.

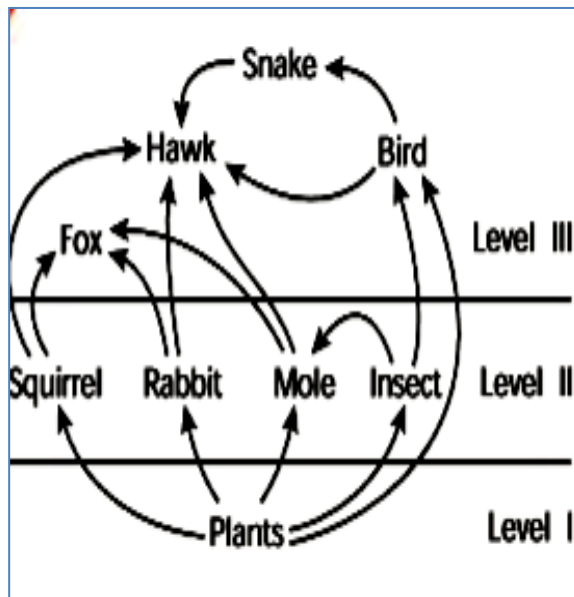


What would most likely make the balloon rocket go faster?

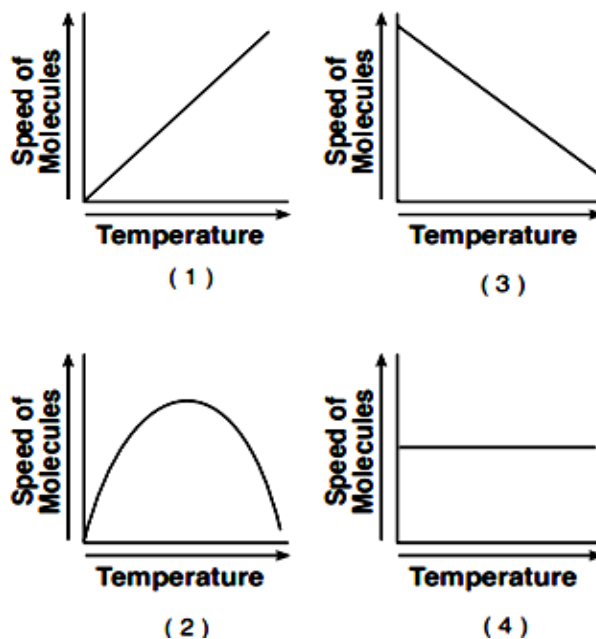
- a) Holding the string so that it is less tight
- b) Using a wider straw
- c) Filling the balloon with more air
- d) Wrapping the tape all the way around the balloon

Q13. If foxes and hawks are removed from this food web, one result will be —

- a) a decrease in snakes
- b) an increase in rabbits
- c) an increase in insects
- d) a decrease in moles

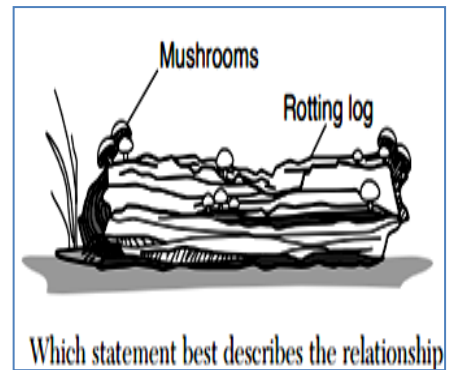


Q14. Which graph best shows the general relationship between the temperature of a gas and the speed of the molecules in that gas?



Q15. The diagram below shows mushrooms, a type of decomposer, growing on a rotting log. Which statement best describes the relationship between the mushrooms and the log?

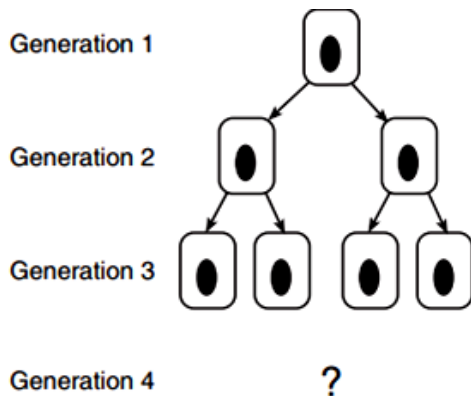
- a) The log uses the mushrooms as a source of oxygen.
- b) The log uses the mushrooms as a food source.
- c) The mushrooms use the log as a source of oxygen.
- d) The mushrooms use the log as a food



Q16. Which fertilization and development method is most typical of humans before birth occurs?

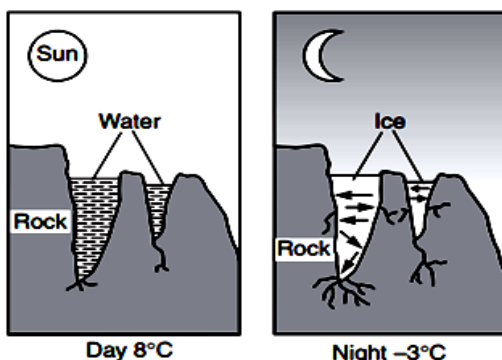
- a) external fertilization and external development
- b) external fertilization and internal development
- c) internal fertilization and external development
- d) internal fertilization and internal development

Q17. 3 The diagram below shows three generations of cell division. How many cells should exist in the fourth generation?



- a) 10
- b) 6
- c) 8
- d) 4

Q18. The diagrams below show a natural process that weathers rock. Which statement best explains why this process results in weathering?



- a) Frozen water acts as a solute.
- b) Water expands when it freezes.
- c) The mass of water increases when it freezes.
- d) Frozen water dissolves most types of rocks.

Q19 . Why were these animals placed into these groups?

Group A	Group B
Grasshopper	Owl
Deer	Opossum
Robin	Moth
Beaver	Bat

- a) One group is active during the day; the other group is active at night.
- b) One group lives near prairies; the other group lives near forests.
- c) One group benefits people; the other group is a pest to people.
- d) One group eats only insect; the other group eats only fish.

Q20. As people get older, the walls of their arteries decrease in diameter due to deposition of cholesterol. What effect would this have on their blood flow?

- a) Blood flow will increase due to the heart having to pump harder.
- b) Blood flow will become uneven due to fluctuations in blood pressure.
- c) Blood flow will slow dramatically due to a sudden drop in blood pressure.
- d) Blood flow will remain unchanged as it is unaffected by changes to the arteries.