

**MINISTRY OF EDUCATION
NATIONAL GRADE SIX ASSESSMENT
PRACTICE TEST 3
SCIENCE
PAPER 1**

MARCH 11, 2020

Reading Time: 10 minutes

Writing Time: 60 minutes

READ THE FOLLOWING INSTRUCTIONS CAREFULLY

1. This test has **40** questions. You have 1 hour 10 minutes to answer them.
2. Each question has four possible answers: (A), (B), (C) and (D). Read each question carefully then choose the correct answer.
3. On your answer sheet, find the number that matches the question you intend to answer.
4. Shade the circle which has the same letter A, B, C or D, next to the answer you have chosen.

Here is an example done for you.

Carbon dioxide is a

- (A) mixture
- (B) liquid
- (C) gas
- (D) solid

Sample Answer

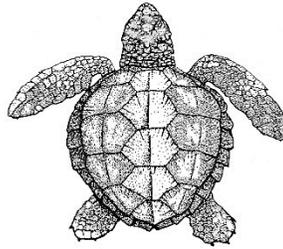


Note: The letter **C** is shaded on the answer sheet because gas, the correct answer, is next to **C**

5. If you want to change your answer erase it completely before you fill in your new choice.
6. When the supervisor tells you to begin, turn the page and work as quickly and as carefully as you can.
7. If you try a question and find that you cannot answer it, leave it and go on to the next one. You may return to that question later.

DO NOT TURN THIS PAGE UNTIL YOU ARE TOLD TO DO SO.

Question 1 refers to the diagram of the animal below.



1. To which of the following groups does the animal belong?
 - (A) Reptiles
 - (B) Arachnids
 - (C) Amphibians
 - (D) Invertebrates

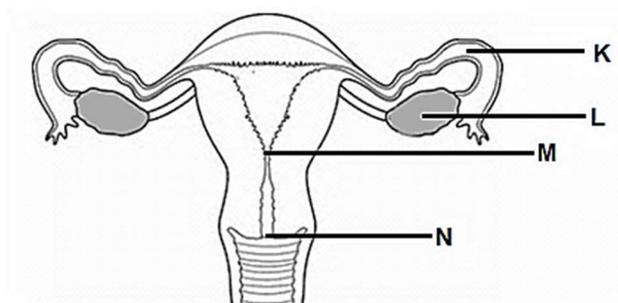
2. Animals are used by humans **mainly** for
 - (A) protection.
 - (B) food.
 - (C) export.
 - (D) shelter.

3. Which of the diseases below is **not** transmitted through sexual intercourse?
 - (A) Syphilis
 - (B) Cholera
 - (C) Chlamydia
 - (D) Gonorrhoea

4. What happens in the human body when someone exercises?

- (A) More energy is needed.
- (B) More oxygen is produced.
- (C) The heart rate decreases.
- (D) Less carbon dioxide is produced.

Questions 5 and 6 refer to the labelled diagram of the human female reproductive system.



5. The part where fertilization occurs is labelled

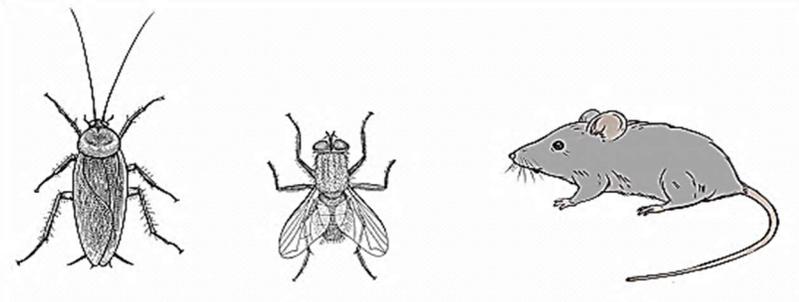
- (A) N.
- (B) M.
- (C) L.
- (D) K.

6. The parts labelled M and N are

- (A) ovary and uterus.
- (B) uterus and cervix.
- (C) cervix and oviduct.
- (D) ovary and oviduct.

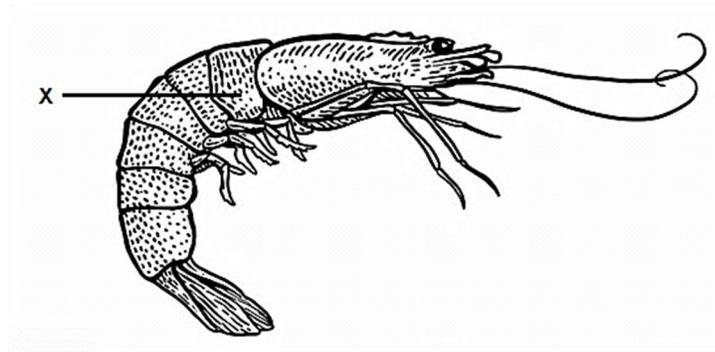
7. One example of a crustacean is
- (A) snail.
 - (B) shrimp.
 - (C) octopus.
 - (D) earthworm.

Question 8 refers to the diagrams of the animals shown below.



8. The animals above are all threats to humans because they
- (A) spread litter.
 - (B) damage crops.
 - (C) spread diseases.
 - (D) destroy properties.
9. Which class of animals represents a group of invertebrates?
- (A) Reptiles
 - (B) Mammals
 - (C) Arachnids
 - (D) Amphibians

Question 10 refers to the diagram of a shrimp as shown below.



10. Functions of the part labeled **X** include

- (i) protecting the animal.
- (ii) covering the animal.
- (iii) moving the animal.

- (A) (i) and (ii) only
- (B) (i) and (iii) only
- (C) (ii) and (iii) only
- (D) (i), (ii) and (iii)

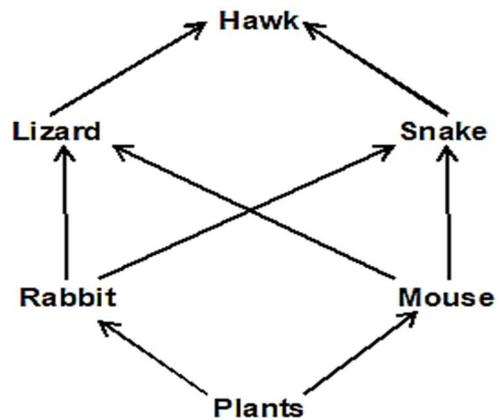
11. All of the following have hairy coverings **except**

- (A) deer.
- (B) toad.
- (C) horse.
- (D) whale.

12. In order to complete her assignment, Rita wants a material that is hard and transparent. Which of the following materials **must** she choose?

- (A) Rock
- (B) Glass
- (C) Wood
- (D) Rubber

Questions 13 and 14 refer to the food web below. Study it carefully and answer the questions that follow.

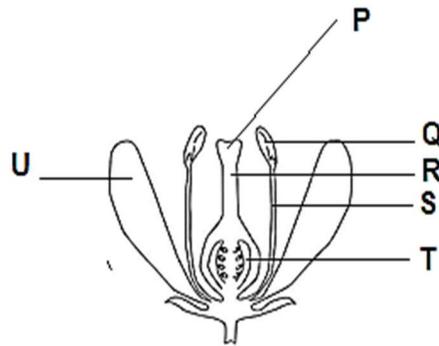


13. Which organism in the food web above is a herbivore?

- (A) Plants
- (B) Snake
- (C) Lizard
- (D) Rabbit

14. Which organism in the food web above can be classified as a predator and a prey?
- (A) Hawk
 - (B) Snake
 - (C) Rabbit
 - (D) Mouse
15. The conditions and substances needed by plants to make food are
- (A) water, oxygen, starch, and warmth.
 - (B) carbon dioxide, chlorophyll, starch and sunlight.
 - (C) sunlight, water, carbon dioxide and chlorophyll.
 - (D) carbon dioxide, chlorophyll , starch and warmth.
16. The stomata in the leaves allow
- (A) oxygen in and water out.
 - (B) carbon dioxide and water in.
 - (C) water vapour and carbon dioxide in.
 - (D) carbon dioxide in and oxygen out.
17. In which of the following parts of the flower does fertilization occur?
- (A) Ovary
 - (B) Anther
 - (C) Stigma
 - (D) Ovules

Questions 18 and 19 refer to the diagram of the flower shown below.



18. The **male** parts of the flower are labelled

- (A) P and R.
- (B) Q and S.
- (C) P, R and T.
- (D) Q, S and U.

19. The functions of the part labelled **U** are to

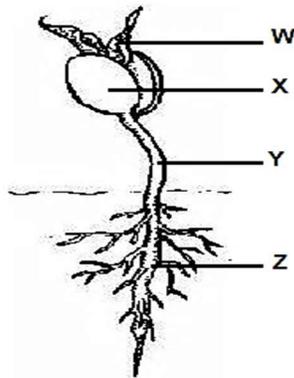
- (i) produce ovules.
- (ii) attract insects and birds.
- (iii) protect the reproductive parts.

- (A) (i) and (ii) only
- (B) (i) and (iii) only
- (C) (ii) and (iii) only
- (D) (i), (ii) and (iii)

20. Which of the following are **not** characteristics of a wind pollinated flower?

- (A) Long feathery anthers
- (B) Light and smooth pollen grains
- (C) Large coloured and scented petals
- (D) Large stamen dangling outside the flower

Questions 21 and 22 refer to the following diagram which shows a very young plant.



21. Which of the parts labelled above stores food for the young plant?

- (A) W
- (B) X
- (C) Y
- (D) Z

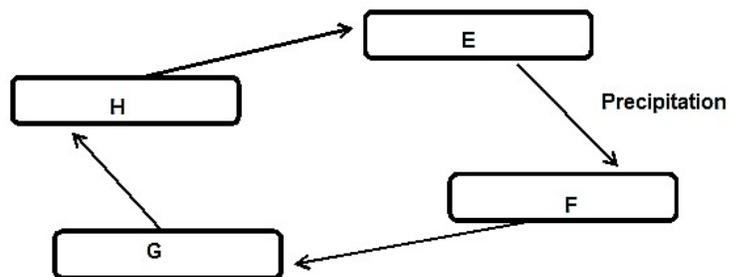
22. The part of the young that grows from the plumule is labelled

- (A) W.
- (B) X.
- (C) Y.
- (D) Z.

23. Which of the following instruments can be used to measure how fast the wind is moving?

- (A) Barometer
- (B) Wind vane
- (C) Anemometer
- (D) Thermometer

Question 24 refers to a simple illustration of the water cycle shown below.



24. What does E represent?

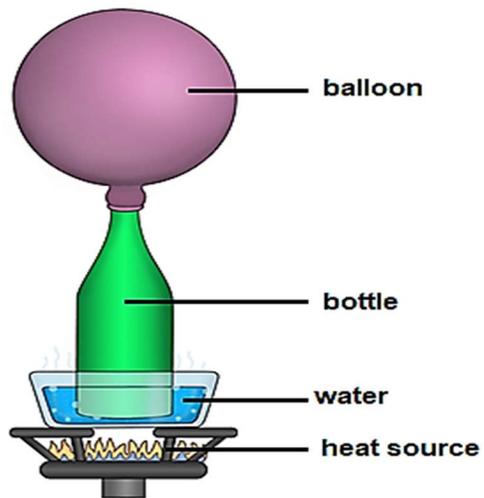
- (A) Clouds
- (B) Rain
- (C) Water vapour
- (D) Water in oceans

25. Which of the following activities will **most** likely reduce pollution?
- (A) Using animal manure for farming
 - (B) Burying non-biodegradable waste
 - (C) Cutting down a large number of trees
 - (D) Building larger chimneys for factories
26. Humans benefit from the rainforest because it provides them with
- (i) food
 - (ii) water
 - (iii) medicine
- (A) (i) and (ii) only
 - (B) (i) and (iii) only
 - (C) (ii) and (iii) only
 - (D) (i), (ii) and (iii)
27. All of the following are methods of conserving water in the home **except**
- (A) washing small loads of clothes.
 - (B) bathing with a bucket of water.
 - (C) purifying waste water for human consumption.
 - (D) washing the yard with water used for rinsing clothes.

28. Which of the materials below is a good conductor of heat?

- (A) Rubber
- (B) Wood
- (C) Glass
- (D) Iron

Question 29 refers to the diagram which shows the heating of a bottle which has its mouth covered with a balloon.

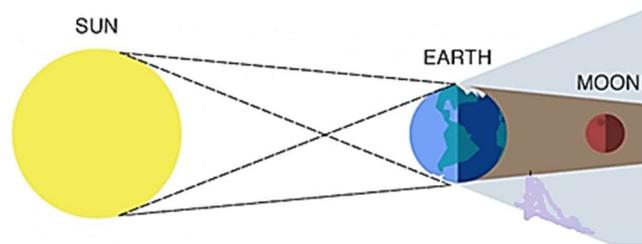


29. Which of the following statements explains why the balloon is inflated?

- (A) The bottle contracted.
- (B) The heat was turned off.
- (C) The air in the bottle expanded.
- (D) The surrounding air contracted.

30. A suspension can be made from mixing
- (A) sugar and water.
 - (B) mud and water.
 - (C) salt and water.
 - (D) coffee and water.

Question 31 refers to the position of the sun, moon and earth as shown in the diagram below.



31. Which of the following is represented by the illustration above?
- (A) New moon
 - (B) Full moon
 - (C) Lunar eclipse
 - (D) Solar eclipse
32. Which of the following is a natural source of heat and light?
- (A) Sun
 - (B) Moon
 - (C) Oven
 - (D) Candle

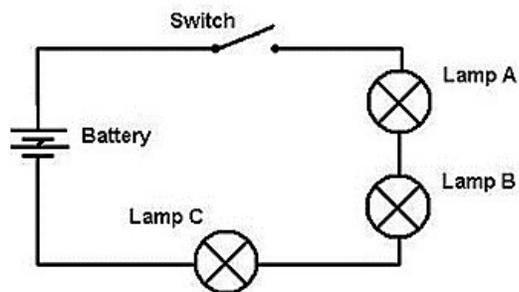
33. The water cycle can occur repeatedly because water

- (A) cannot be compressed.
- (B) is essential for all living things.
- (C) changes state by heating or cooling.
- (D) evaporates only from seas and oceans.

34. Which of the following is **not** an example of a physical change?

- (A) Cutting up a sheet of cloth
- (B) Mixing sugar and water
- (C) Ice melting into water
- (D) Baking a cake

Questions 35 and 36 refer to the diagram of a circuit as shown below.



35. What type of simple circuit is represented in the diagram above?

- (A) Series
- (B) Parallel
- (C) Parallel series
- (D) Series parallel

36. What effect will there be in the circuit if Lamp B is damaged and the switch is closed?

- (A) Only Lamp C will light.
- (B) Only Lamp A will light.
- (C) Lamps A and C will light
- (D) Lamps A and C will not light.

37. Lina hangs her T-shirts outside. Which **two** weather conditions would be best for drying her laundry?

- (A) Windy and stormy
- (B) Windy and cloudy
- (C) Sunny and windy
- (D) Sunny and cloudy

Question 38 refers to the diagram of a simple machine in use as shown below.



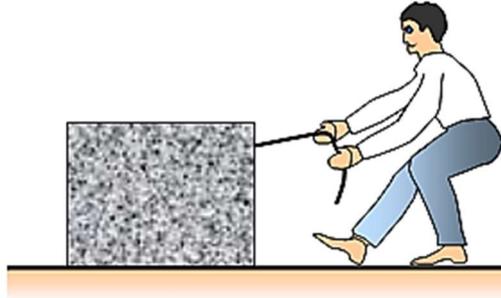
38. Which type of simple machine is used above to remove the cork from the bottle?

- (A) Lever
- (B) Screw
- (C) Wedge
- (D) Inclined plane

39. Which of the following objects possesses potential energy?

- (A) A ball rolling on the field
- (B) A stretched rubber band
- (C) An electric fan switched on
- (D) Water falling from a mountain

Question 40 refers to the use of a simple machine as shown below.



40. The force that the man is acting against is

- (A) friction.
- (B) electrical.
- (C) magnetic.
- (D) gravitational.

END OF TEST

IF YOU FINISH BEFORE TIME IS UP, CHECK YOUR WORK ON THIS ASSESSMENT

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MARCH 2020
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Mark Scheme

- | | |
|-------|-------|
| 1. A | 21. B |
| 2. B | 22. A |
| 3. B | 23. C |
| 4. A | 24. A |
| 5. D | 25. A |
| 6. B | 26. D |
| 7. B | 27. A |
| 8. C | 28. D |
| 9. C | 29. C |
| 10. A | 30. B |
| 11. B | 31. C |
| 12. B | 32. A |
| 13. D | 33. C |
| 14. B | 34. D |
| 15. C | 35. A |
| 16. D | 36. D |
| 17. A | 37. C |
| 18. B | 38. A |
| 19. C | 39. B |
| 20. C | 40. A |