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**MINISTRY OF EDUCATION
BAHAMAS JUNIOR CERTIFICATE
EXAMINATION**

**0047 GENERAL SCIENCE
PAPER 1 MULTIPLE CHOICE QUESTIONS
(40 Marks)**

Monday **13 JUNE 2022** 1:00 P.M.–2:00 P.M.

INSTRUCTIONS TO CANDIDATES:

Do not open this booklet until you are told to do so.

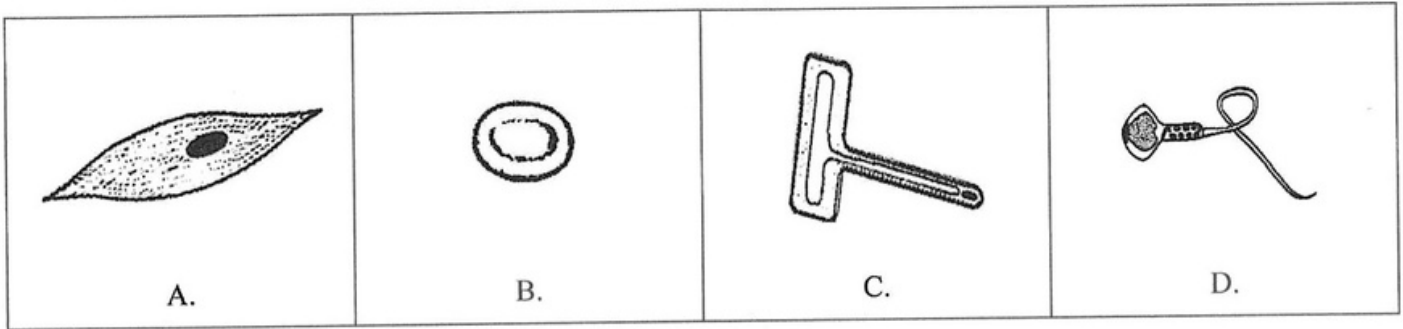
Write your school number, candidate number, surname and initials in the spaces provided at the top right hand side of this page.

For each question, there are four suggested answers A, B, C and D. When you have selected an answer to a question, circle the letter by the answer which you have chosen.

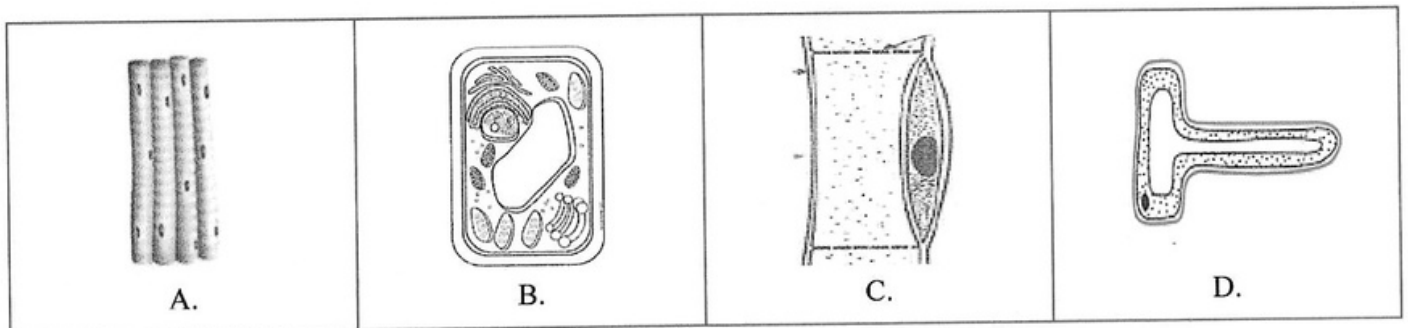
Answer **ALL** the questions in this booklet. Do any necessary rough work and calculations in your booklet.



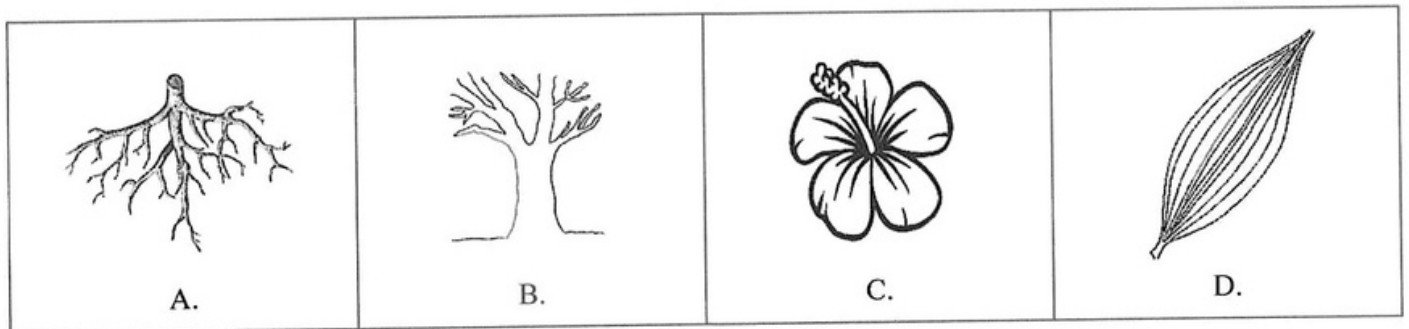
1. Which cell changes its length and shape to produce motion?



2. Which cell absorbs light so that photosynthesis can take place?



3. Which plant organ is responsible for reproduction?

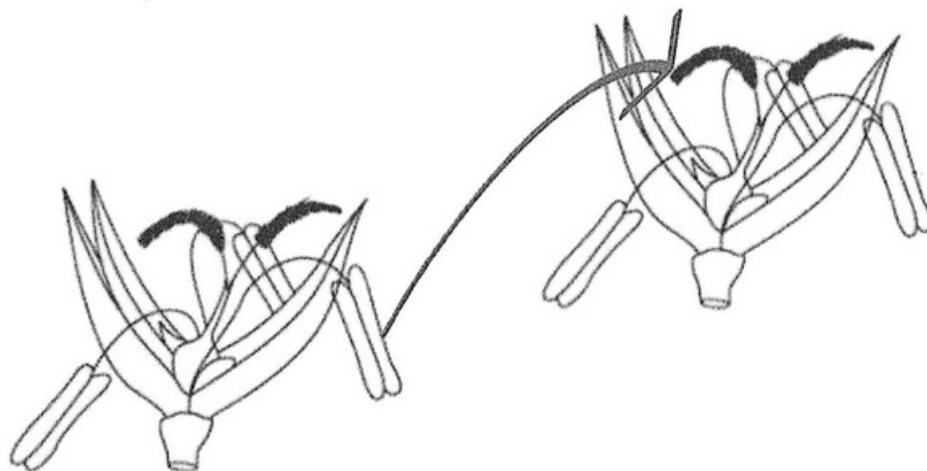


4. Which of the following is a good conductor of electricity?

- A. cloth
- B. metal
- C. plastic
- D. wood



5. The diagram shows a flower that is wind pollinated.



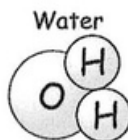
Which of the following shows the definition of pollination?

- A. germination of pollen grains
 B. growth of the pollen tube in the ovule
 C. insects visiting flowers
 D. transfer of pollen grains from the anther to the stigma
6. Which row shows how one type of sex cell is transported so that fertilisation can occur in a flowering plant?

	Type of sex cell	How transported
A.	female	in a pollen grain
B.	female	in a seed
C.	male	in a pollen grain
D.	male	in a seed

7. A water molecule is made up of three atoms. What is the meaning of the word **atom**?

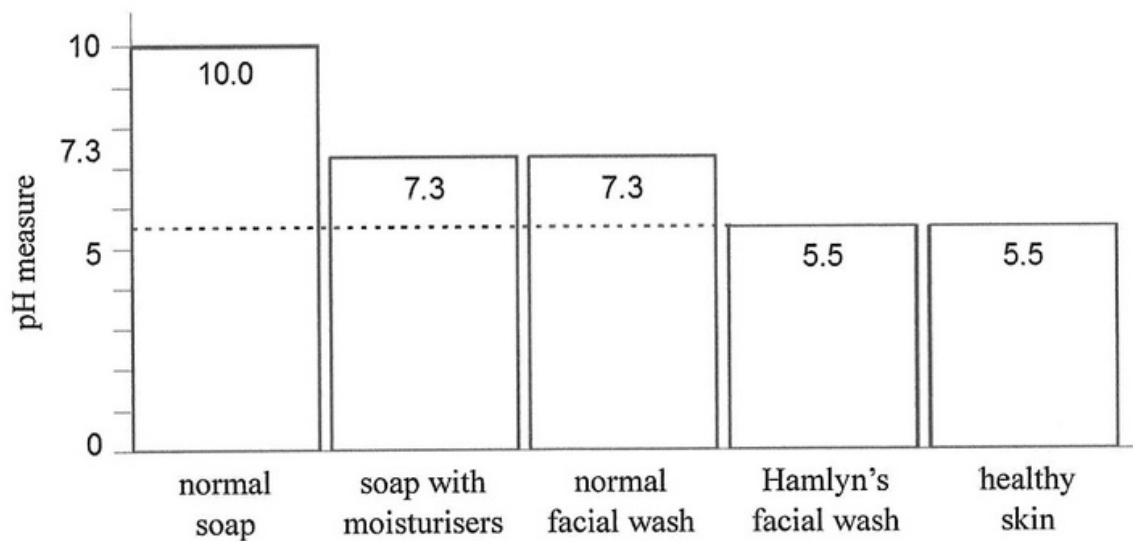
- A. a chemical element
 B. a single cell
 C. smallest particle of matter
 D. two or more particles



8. What is the correct chemical formula for table salt?

- A. CO_2
 B. HCl
 C. NaCl
 D. NH_3

9. The chart indicates the pH of different facial washes compared to that of healthy skin.



Use the pH chart to describe Hamlyn's facial wash.

- A. neutral
 - B. slightly acidic
 - C. slightly alkaline
 - D. very alkaline
10. Which statement accurately describes mass and weight?

	Mass	Weight
A.	is the same everywhere	is the same everywhere
B.	is measured using a spring balance	is measured using an ordinary balance
C.	amount of matter in a substance	depends on the effect of gravity
D.	measured in newtons (N)	measured in kilograms (kg)

11. Which of the following is **not** an activity that causes animals to become extinct?

- A. habitat destruction
- B. introduction of predators
- C. over-hunting
- D. recycling

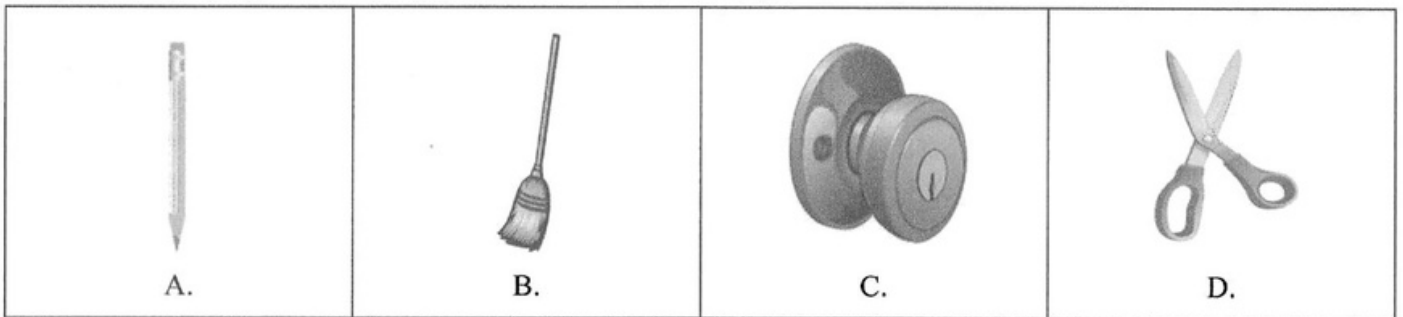


12. Name the simple machine shown in the diagram.



- A. lever
- B. screw
- C. wedge
- D. wheel and axle

13. Which is an example of a third-class lever?



14. What is the difference between a conductor and an insulator?

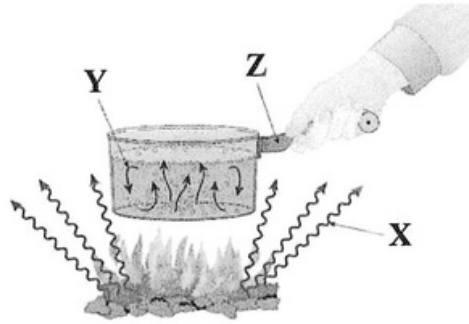
- A. Conductors allow energy to flow easily and insulators restrict the flow of energy.
- B. Conductors allow energy to flow slowly and insulators speed up the flow of energy.
- C. Conductors and insulators perform the same tasks.
- D. Conductors conduct and insulators protect against movement of objects.

15. Name the equipment used to break up white light into colours.

- A. glass
- B. lens
- C. mirror
- D. prism

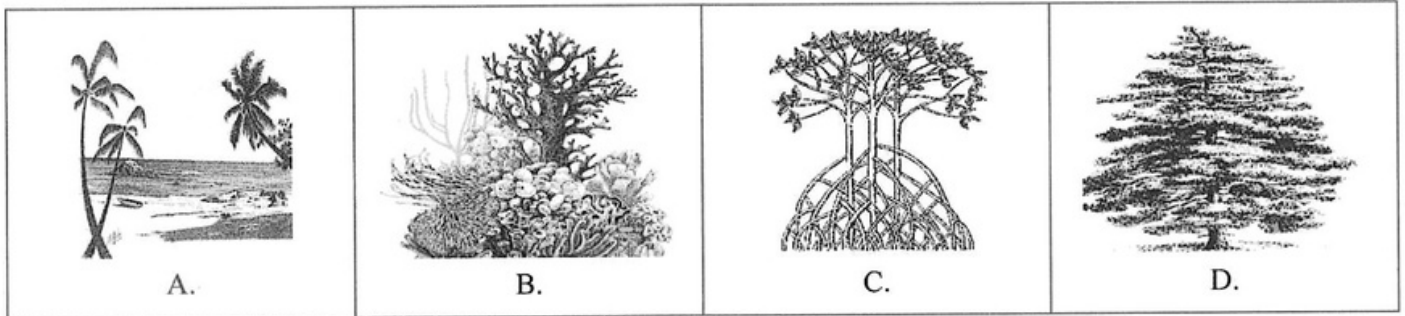


16. Which method of heat transfer is shown at X?

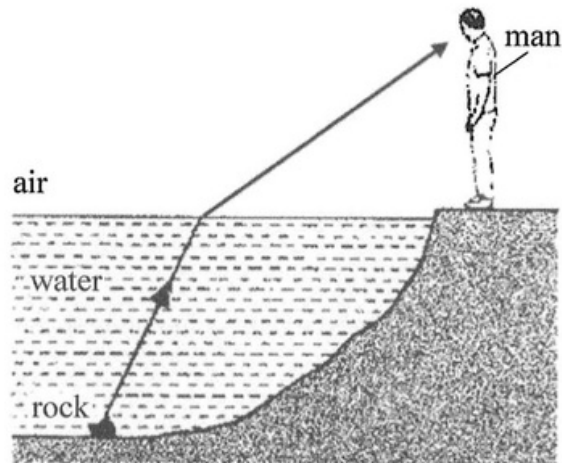


- A. conduction
- B. convection
- C. evaporation
- D. radiation

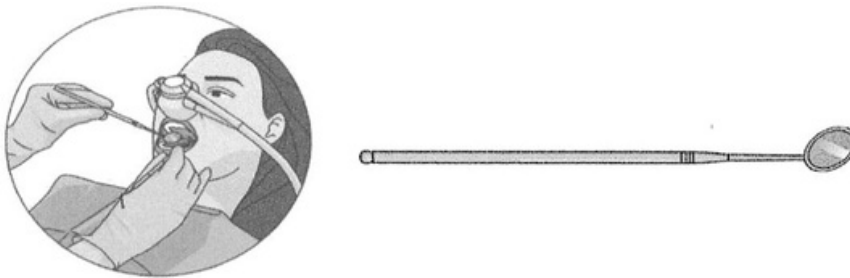
17. Which Bahamian ecosystem acts as a buffer from the impact of storms and grows in brackish water?



18. What phenomenon is shown in the diagram?



- A. deflection
 B. dispersion
 C. reflection
 D. refraction
19. Which type of mirror is used by dentists while examining small cavities in the teeth?



- A. concave
 B. convex
 C. plane
 D. spherical
20. What is the function of a circuit breaker?
- A. controlling magnetic fields in electrical appliances
 B. interrupting electric currents when there is too much flow
 C. maintaining electric circuits in electrical appliances
 D. neutralising the effects of electric currents in circuits
21. What is the greatest hazard when live uninsulated wire is left sticking out of a wall?
- A. a fire
 B. a fuse blowing
 C. an electric shock
 D. no current flowing

22. Which row in the table shows the correct information about herbivores and carnivores?

	Herbivores	Carnivores
A.	break down dead things	eat plants only
B.	eat meat and plants	break down dead things
C.	eat meat only	feed on dead things
D.	eat plants only	eat meat only

23. Which invasive species destroys sand dunes and is commonly found growing along shorelines in The Bahamas?

- A. Bermuda grass
- B. Brazilian pepper
- C. Casuarina
- D. Poinciana

24. Which of the following is **not** a source of air pollution?

- A. burning wood
- B. car exhaust
- C. plastic bags
- D. using fossil fuels

25. Give **one** harmful effect of pollution on the coral reef.

- A. Habitat is improved.
- B. Organisms die.
- C. Sunlight is received better.
- D. Organisms have more to eat.

26. Which is an NPK fertiliser?

- A. artificial fertilisers
- B. compost
- C. humus
- D. natural fertilisers

27. Which substance added to the soil provides nutrients and is the most environmentally friendly?

- A. ammonia
- B. ammonium nitrate
- C. manure
- D. sand

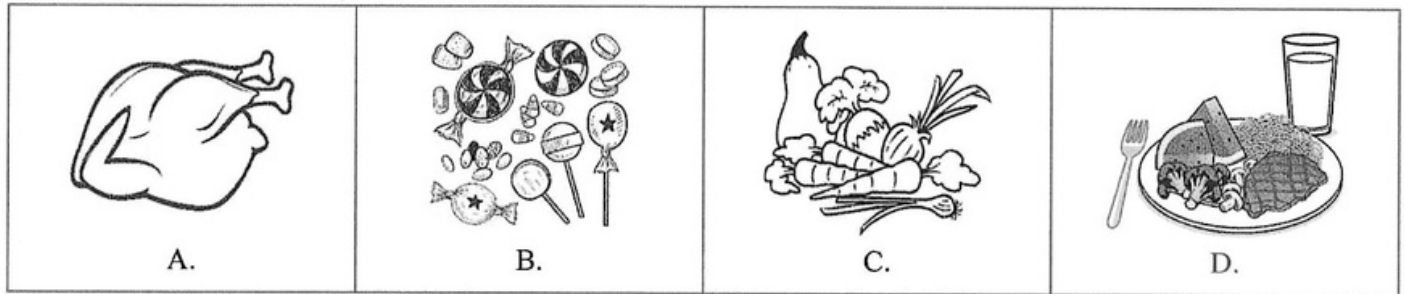


28. Which property of air is being demonstrated in this simple laboratory experiment?



- A. Air exerts pressure.
 B. Air has mass.
 C. Air has weight.
 D. Air takes up space.
29. Which of the following is a use of oxygen?
- A. bread making
 B. combustion
 C. making fizzy drinks
 D. photosynthesis
30. Which pair of substances shows the parts of a solution?
- A. acid and base
 B. filtrate and solute
 C. metal and non-metal
 D. solute and solvent
31. Why is water known as the 'universal solvent'?
- A. It can exist in all three states of matter.
 B. It can only dissolve three solutes.
 C. It can dissolve many different substances.
 D. It is needed by all living things.
32. The eventual result of an imbalanced diet is
- A. malnutrition.
 B. nutrition.
 C. obesity.
 D. poverty.
33. Name the nutrient needed by every cell for every process in the body.
- A. fat
 B. protein
 C. vitamins
 D. water

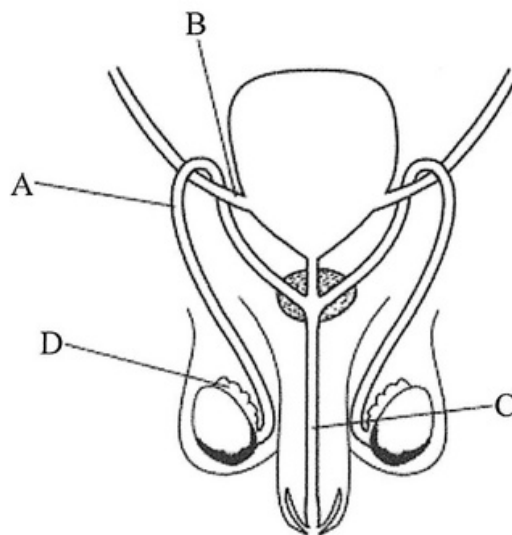
34. Which picture represents a balanced meal?



35. Consuming more calories than you burn each day results in

- A. a decrease in metabolism.
- B. an increase in metabolism.
- C. weight gain.
- D. weight loss.

36. Which structure carries sperm and urine out of the human body?



37. The cell that forms during fertilisation is a(n)

- A. egg.
- B. gamete.
- C. sperm.
- D. zygote.

38. Which of the following contraceptive methods is taken orally and is **not** a barrier method?

- A. condom
- B. diaphragm
- C. IUD
- D. the 'pill'



39. Which method is suitable to absorb water from food and slow the growth of bacteria?
- A. canning
 - B. freezing
 - C. pasteurisation
 - D. salting
40. Which is **one** major disadvantage of operating a nuclear power plant to generate electricity?
- A. A small amount of fuel is needed.
 - B. It conserves fossil fuels.
 - C. Nuclear fuel is very expensive.
 - D. There are no carbon dioxide emissions.

