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**MINISTRY OF EDUCATION
BAHAMAS JUNIOR CERTIFICATE
EXAMINATION**

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

Wednesday **31 MAY 2023** 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.



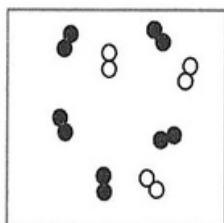
This question paper consists of **15** printed pages and **1** blank page.

1. John was given four bean seeds to plant.

Which conditions are necessary for the seeds to germinate?

- A. water and soil
- B. water, soil and oxygen
- C. water, oxygen and suitable temperature
- D. water, oxygen and sunlight

2. The diagram shown represents a sample of air.



Key:

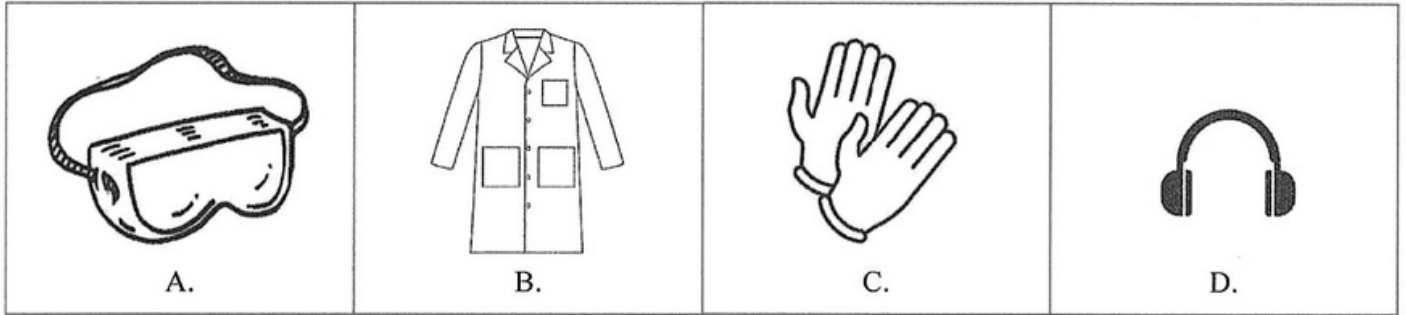
- = nitrogen atom
- = oxygen atom

Which correctly describes the sample of air?

- A. a compound
 - B. an element
 - C. a mixture of compounds
 - D. a mixture of elements
3. What is the SI unit for work?
- A. calorie
 - B. joule
 - C. meter
 - D. watt
4. Through which substance does air travel fastest?
- A. a broomstick
 - B. a vacuum
 - C. the atmosphere
 - D. the sea



5. What should **not** be worn in the lab when working with heat and chemicals?



6. What is a measure of how hot or cold a substance is?

- A. climate
- B. heat
- C. temperature
- D. thermometer

7. Which ecosystem is **NOT** a marine habitat?

- A. coral reef
- B. pine forest
- C. mangrove swamp
- D. rocky shore

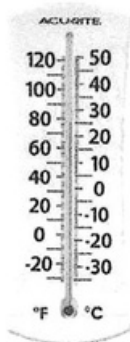
8. Which is a natural source of air pollution?

- A. car exhaust
- B. paint
- C. power plant
- D. wild fire

9. What is the function of this laboratory tool?

It measures....

- A. length.
- B. mass.
- C. temperature.
- D. volume.



10. Which is an example of a natural fertiliser?

- A. ammonium nitrate
- B. manure
- C. potassium sulphate
- D. urea

11. Which row in the table correctly identifies the important use of these gases found in the atmosphere?

	Oxygen	Nitrogen	Carbon dioxide
A.	fizzy drinks	risers bread	inflates balloons
B.	photosynthesis	respiration	relights a splint
C.	extinguish fire	photosynthesis	respiration
D.	respiration	fire suppression	photosynthesis



12. Which two methods of water purification are being shown in **Figures S and T**?

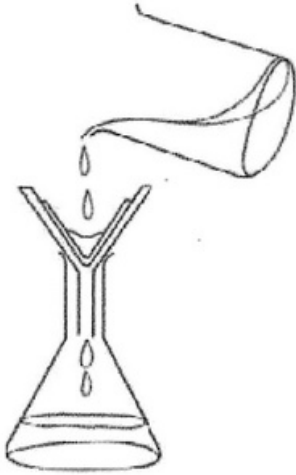


Figure S

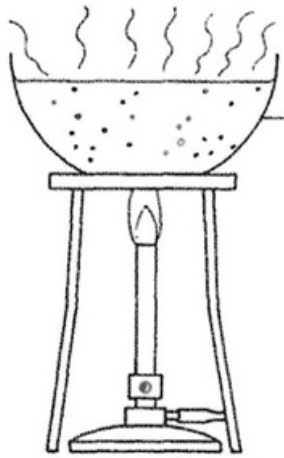
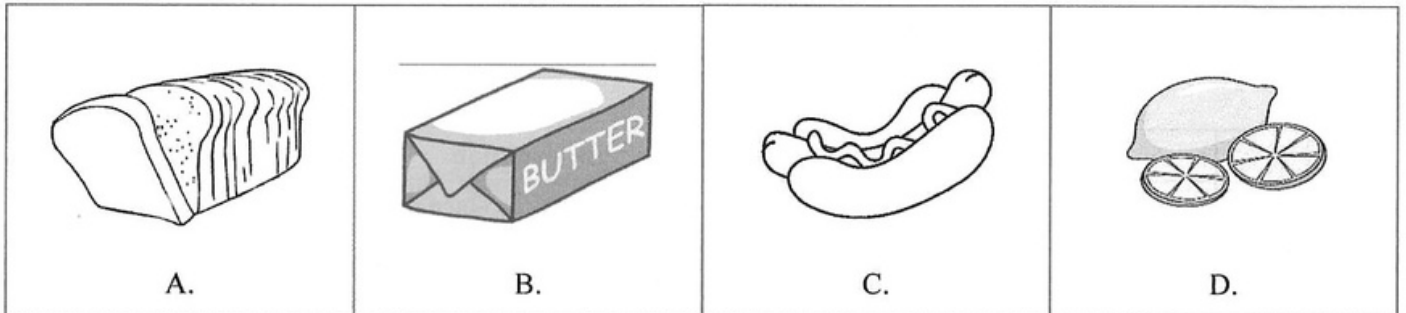


Figure T

- A. distillation and evaporation
- B. distillation and filtration
- C. evaporation and decantation
- D. filtration and evaporation

13. Which food is a good source of vitamin C?



14. Which row in the table correctly matches the deficiency disease with the lacking nutrient?

	Deficiency disease	Lacking nutrient
A.	anemia	iron
B.	goiter	vitamin C
C.	rickets	iodine
D.	scurvy	vitamin D

15. Which substance increases in the blood during puberty?

- A. fats
- B. hormones
- C. proteins
- D. sugars

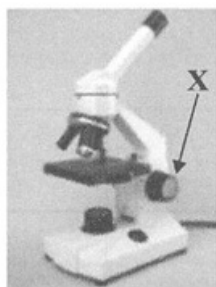
16. Milk is treated by the process of pasteurisation to eliminate harmful bacteria and extend shelf life.

To what temperature is milk heated during pasteurisation?

- A. above 121 °F
- B. above 150 °F
- C. above the boiling point
- D. at 212 °F

17. The diagram shows a microscope.

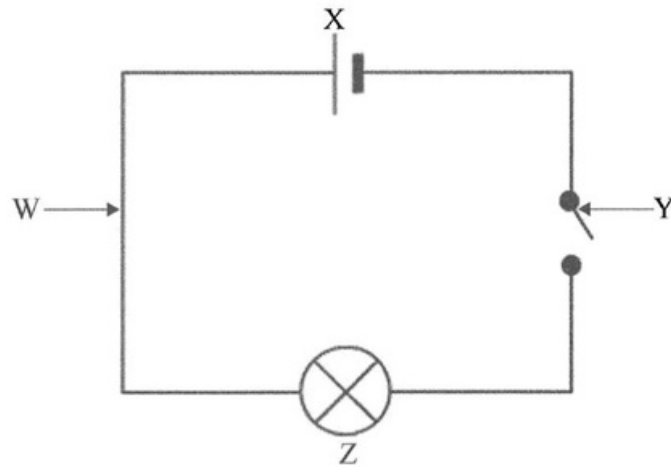
What is the part labelled X and what is its function?



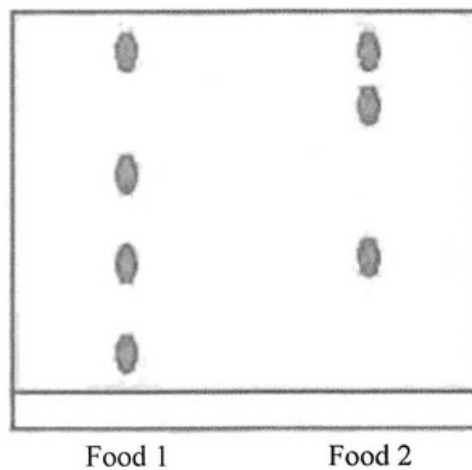
	Part	Its Function
A.	coarse adjustment	allows you to focus to produce a clear image
B.	mirror	shines light on the glass slide
C.	objective lens	causes image to be magnified to produce a clear image
D.	stage	holds the glass slide



18. Which structure below represents the switch?



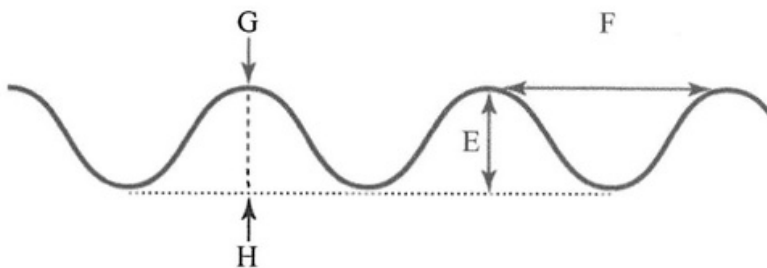
- A. W
B. X
C. Y
D. Z
19. The diagram shows colours being separated in two foods.



Which process is being used to separate the colours?

- A. chromatography
B. evaporation
C. filtration
D. magnetism

20. How does the inclined plane work? It...
- A. increases the distance through which the force is applied.
 - B. increases the work.
 - C. reduces the effort distance.
 - D. reduces the work.
21. Which state of matter allows sound to travel fastest?
- A. gases
 - B. gases and liquids
 - C. liquids
 - D. solids
22. The diagram below shows a wave pattern.



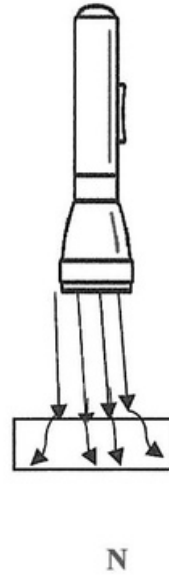
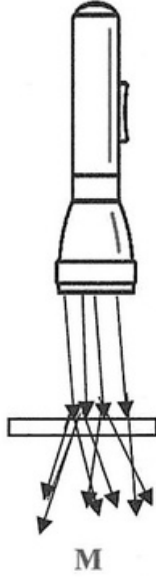
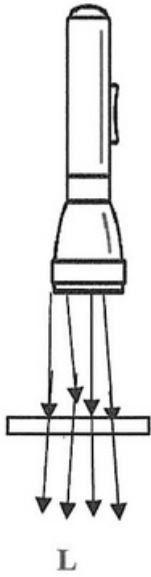
Which letter represents the amplitude?

- A. E
- B. F
- C. G
- D. H



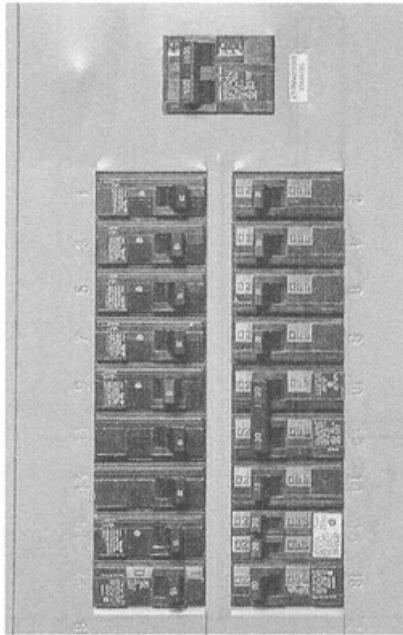
23. The drawings show what happens when light hits different materials.

Which row correctly shows how light travels through the materials?



	Opaque	Translucent	Transparent
A.	L	M	N
B.	M	N	L
C.	M	L	N
D.	N	M	L

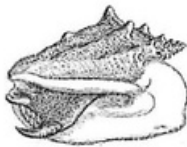
24. The diagram shows a device used in household electrical circuits.
What is its main function?



- A. carrying energy for the circuit to function
B. interrupting the flow of current to protect equipment
C. limiting the flow of electric current
D. opening and closing a circuit
25. Which organism is **not** considered endangered in The Bahamas?



A. Bahama Parrot



B. Conch



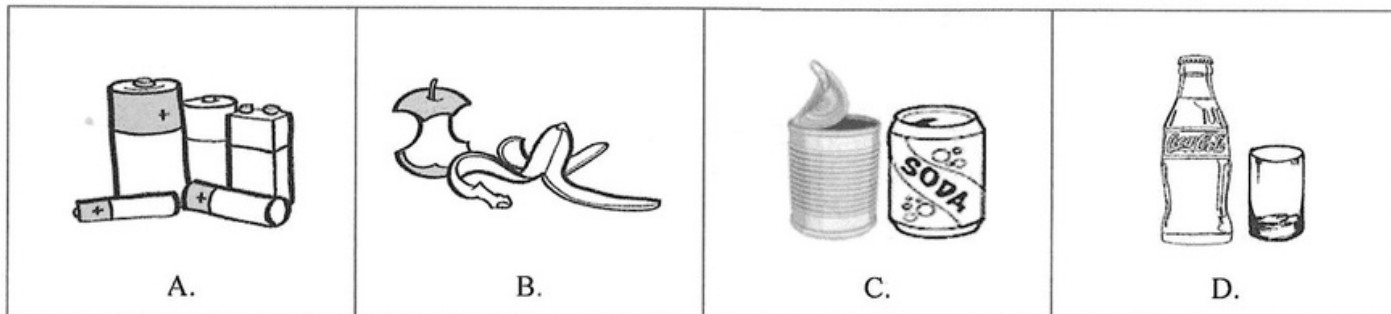
C. Green turtle



D. Iguana



26. Which of the following items is biodegradable?



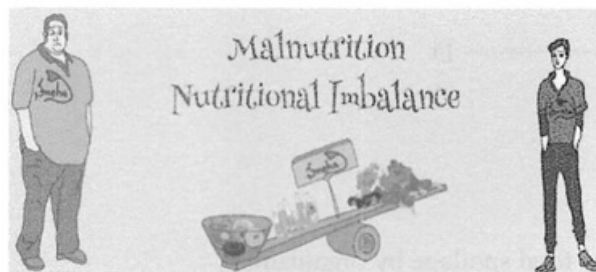
27. What percentage of the air is nitrogen?

- A. 0.04%
- B. 0.93%
- C. 21%
- D. 78%

28. Which component is the salt in the salt solution?

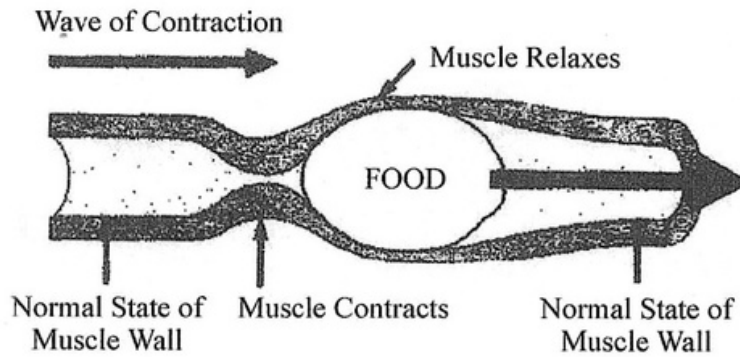
- A. liquid
- B. mixture
- C. solute
- D. solvent

29. Which row gives a correct definition of the terms **nutrition** and **malnutrition** respectively?

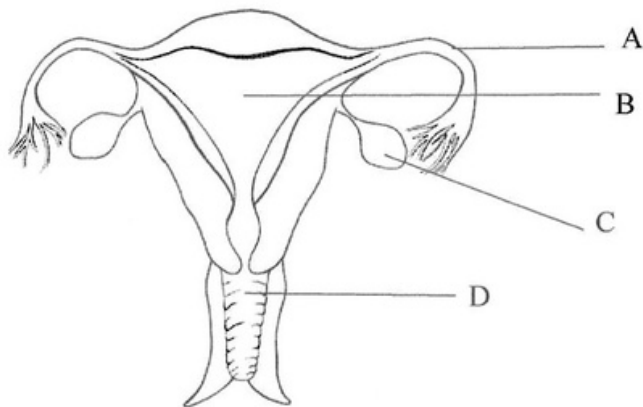


	Nutrition	Malnutrition
A.	having sufficient nutrients for proper growth	having insufficient nutrients for proper growth
B.	consuming too many calories	consuming just enough calories
C.	eating all of your food	vomiting up all your food
D.	lack of protein in the diet	adequate amount of protein in the diet

30. What process does the diagram show?



- A. circulation
 B. digestion
 C. metabolism
 D. peristalsis
31. The diagram shows parts of the female reproductive system.
 Where does fertilisation take place?



32. Which is **not** an example of food spoilage by organisms?
- A. curdling of milk
 B. bread mold
 C. mushrooms on pizza
 D. rancid oil

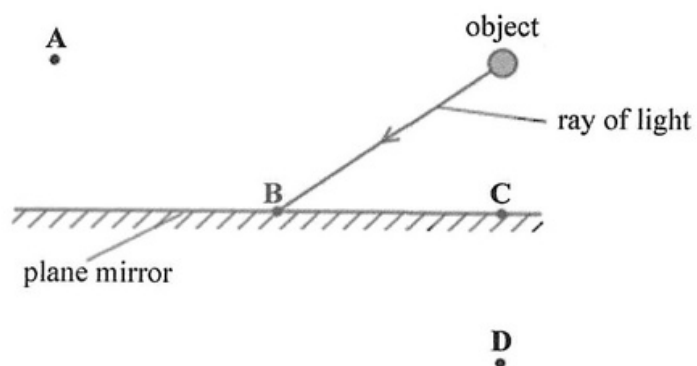


33. What is produced when sound waves are reflected from a solid surface? a/an...

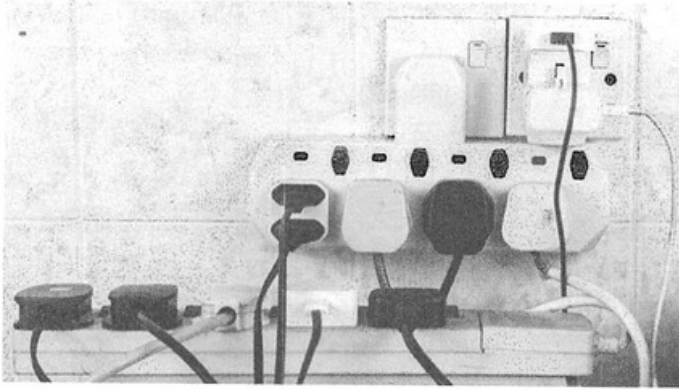
- A. echo
- B. image
- C. shadow
- D. spectrum

34. A plane mirror is used to form an image of an object.

At which labelled point is the image formed?



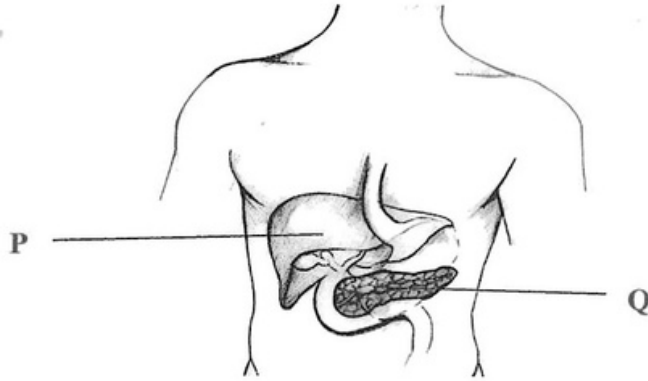
35. What is the electrical hazard shown in the picture?



- A. downed power lines
 - B. frayed wires
 - C. overloaded outlets
 - D. poor wiring
36. Why is the ozone layer important to life on earth?
- A. Ozone prevents harmful effects of solar radiation on a daily basis.
 - B. Ozone protects against sunburn.
 - C. Ozone protects animals from dehydration.
 - D. The layer prevents lightning from striking human beings.



37. The diagram shows **two** main organs of the digestive system.



Which statement is correct about the labelled organs?

- A. P is the liver and Q is the stomach
 B. P is the liver and Q is the small intestine
 C. P secretes bile and Q secretes insulin
 D. P secretes insulin and Q destroys germs.
38. Why is contraception used? To...
- A. increase fertility
 B. prevent cancers
 C. prevent the transmission of STI's
 D. prevent unwanted pregnancies
39. Which row correctly shows an advantage for and a disadvantage of nuclear energy?

	Advantage	Disadvantage
A.	low greenhouse gas emission	harmful environment impact
B.	security threat	can be built quickly
C.	takes a long time to build	inexpensive source of energy
D.	not a reliable source of energy	power output is maximum

40. Which two diseases shown are common STI's?

- A. AIDS and COVID-19
- B. chlamydia and gonorrhea
- C. diabetes and genital herpes
- D. influenza and syphilis

