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TOTAL MARKS	

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**MINISTRY OF EDUCATION
BAHAMAS JUNIOR CERTIFICATE
EXAMINATION**

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

Monday **21 JUNE 2021** 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.

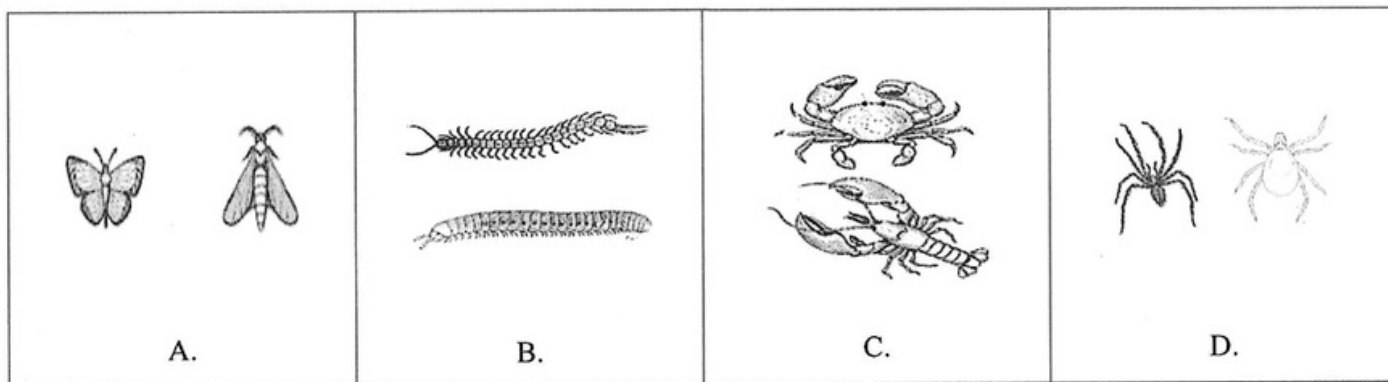
For each question, there are four suggested answers A, B, C and D. When you have selected an answer to a question, circle the letter by the answer which you have chosen.

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



This question paper consists of **11** printed pages and **1** blank page.

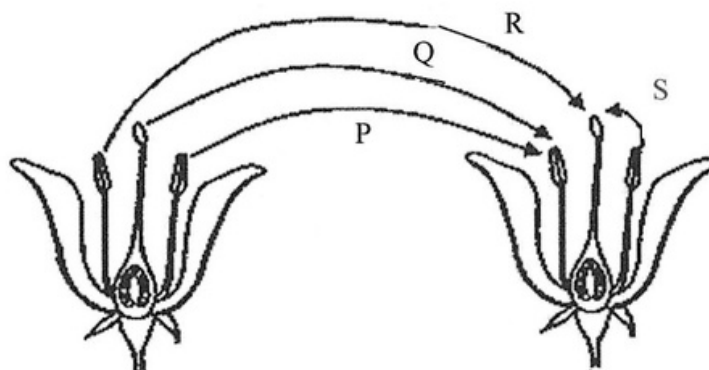
1. Which of the following are the most commonly known myriapods?



2. Which group of plants reproduce by spores?

- A. algae
- B. angiosperms
- C. ferns
- D. gymnosperms

3. The diagrams show two flowers from the same plant.



Which pair of arrows shows pollination taking place?

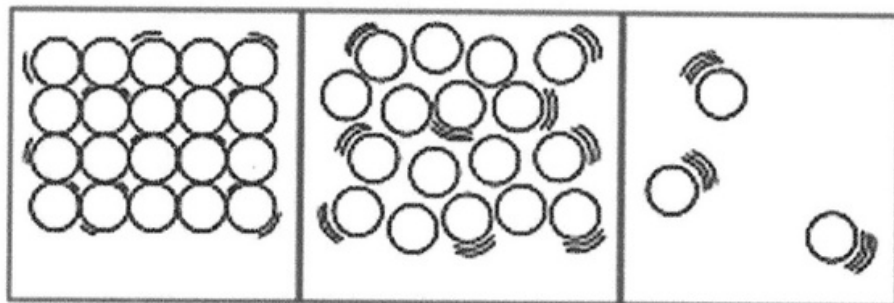
- A. P and Q
 - B. P and S
 - C. Q and S
 - D. R and S
4. Which part of the flower becomes the seed after fertilisation?
- A. ovary
 - B. ovule
 - C. petal
 - D. sepal
5. Which condition is **not** necessary for germination to take place?

- A. correct temperature (warmth)
- B. oxygen
- C. sunlight
- D. water



6. The diagram represents particles in the three states of matter.

Energy added
→



Energy removed
←

What happens to the spacing between the particles as the energy of the particles increases? It

- A. decreases.
B. increases.
C. decreases and then increases.
D. remains constant.
7. The chemical formula for table salt is NaCl. What are the names of the elements Na and Cl?
- A. Na is nitrogen and Cl is chlorine.
B. Na is sodium and Cl is carbon.
C. Na is sodium and Cl is chlorine.
D. Na is neon and Cl is chlorine.
8. When a crystal of potassium permanganate is placed in a beaker of water, its purple colour spreads throughout the water. What is the name of this process?
- A. conduction
B. diffusion
C. expansion
D. radiation
9. Which diagram represents the most dilute solution?



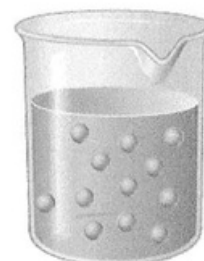
A.



B.

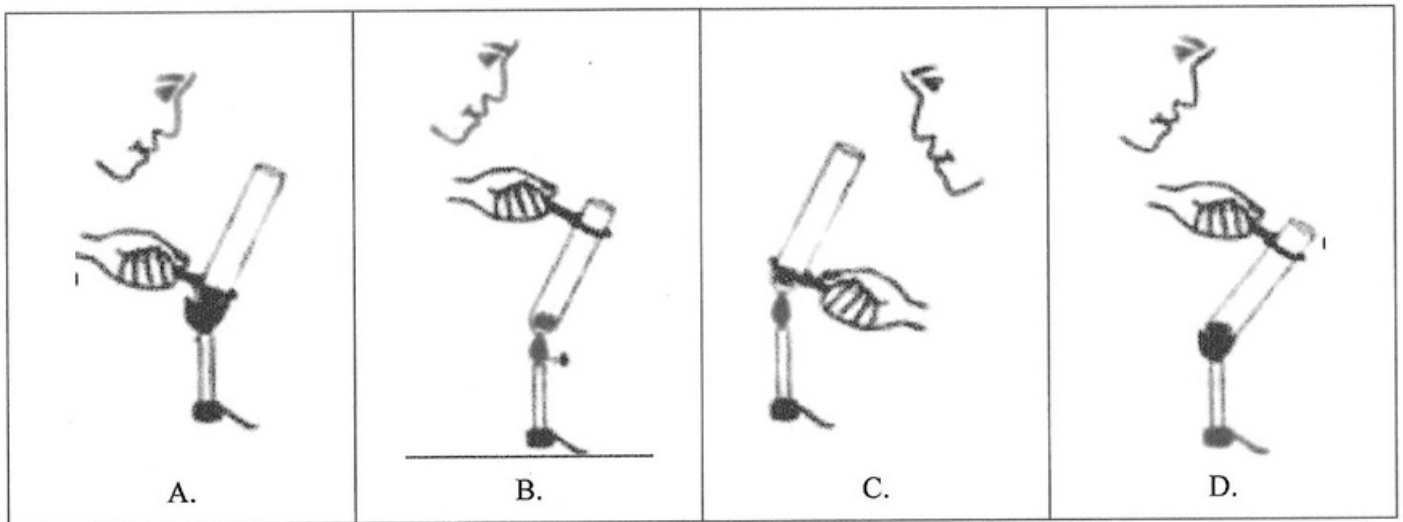


C.



D.

10. Hydrochloric acid can be found in the stomach. It helps to break down nutrients and kill harmful bacteria. What is the chemical formula for hydrochloric acid?
- H_2CO_3
 - HCl
 - HNO_3
 - NH_3
11. Tomato sauce has a pH value of 4. What kind of substance is tomato sauce?
- strong acid
 - strong base
 - weak acid
 - weak base
12. Johnny was heating a test-tube in the lab during an experiment. What is the correct safety measure that should be followed?



13. Wind, geothermal and solar energy are kinds of energy. Which word best describes these energy resources?
- cheap
 - chemical
 - potential
 - renewable
14. When a person is skipping where do they have the most potential energy?



- at the bottom when they bend their knees
- at the bottom when they hit the ground
- in the middle of their jump
- at the top right before they go down again



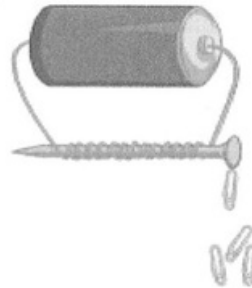
15. Calculate the distance travelled by a mouse running at 2 metres per second for 20 seconds.

- A. 10 metres
- B. 10 metres per second
- C. 40 metres
- D. 40 metres per second



16. Why are the paper clips attracted to the nail?

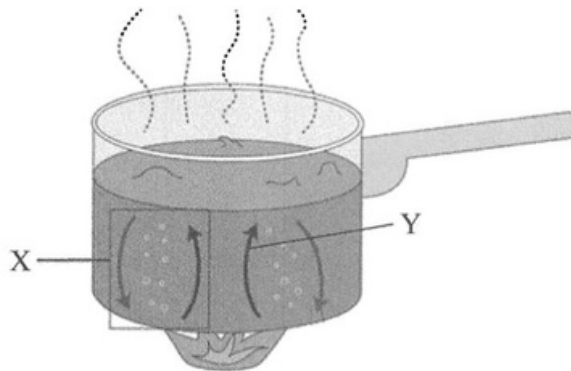
- A. The nail is a conductor.
- B. The nail is magnetised.
- C. The paper clip is demagnetised.
- D. The paper clip is magnetised.



17. As compared to air, the speed of sound in liquids and solids is

- A. equal.
- B. faster.
- C. lower.
- D. zero.

18. The diagram shows what happens when water is heated. Identify the process occurring at X.



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

19. Which of the following is an insulator of heat?



A. coin



B. iron

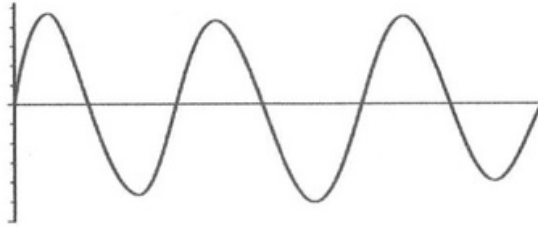


C. metal spoon



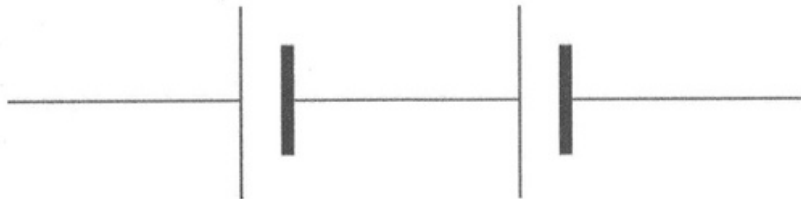
D. pot holder

20. A transverse wave is shown in the diagram.



Which term represents the distance between two crests that are next to each other?

- A. amplitude
 - B. speed
 - C. trough
 - D. wavelength
21. During a storm, thunder and lightning start at the same time, however, we will see the lightning before we hear the thunder. Why does this take place?
- A. Light travels faster than sound.
 - B. Light has a shorter distance to travel than sound.
 - C. Sound travels faster than light.
 - D. They both travel at the same speed.
22. What does the symbol in the diagram show?



- A. two cells in parallel
- B. two cells in series
- C. two resistors in parallel
- D. two resistors in series



23. What types of circuits are shown in the diagrams P and Q?

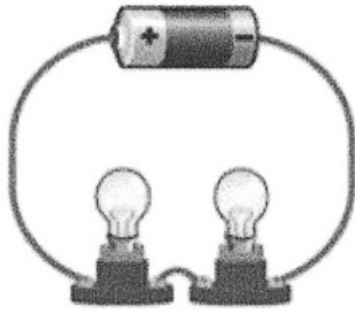


Diagram P

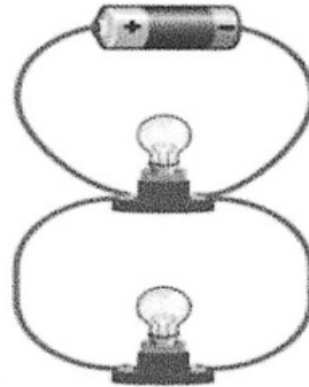


Diagram Q

- A. Diagram P is a parallel circuit and diagram Q is a series circuit.
 B. Diagram P and Q are both parallel circuits.
 C. Diagram P is a series circuit and diagram Q is a parallel circuit.
 D. Diagram P and Q are both series circuits.
24. Which of the following is a habitat for juvenile snappers?



A. beach



B. mangrove



C. river



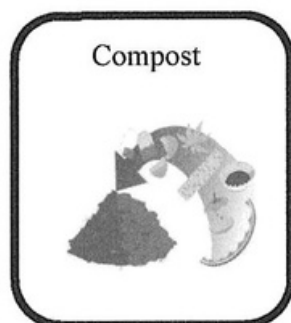
D. stream

25. Which organism is protected by a closed season in The Bahamas?
- A. Lionfish
 B. Nassau grouper
 C. Queen conch
 D. Barracuda
26. Which of the following are the main pollutants found in Bahamian waters?
- A. algae and seaweed
 B. coral and lionfish
 C. garbage and sewage
 D. oxygen and bacteria

27. Pollution increases global warming which causes the temperature of the oceans to increase. High temperatures can cause corals to expel zooxanthellae (algae) and change colour. Name the process that causes this to occur in the coral reef.

A. acidification
 B. bleaching
 C. calcification
 D. sedimentation

28. Which is an example of an artificial fertiliser?



A.



B.



C.

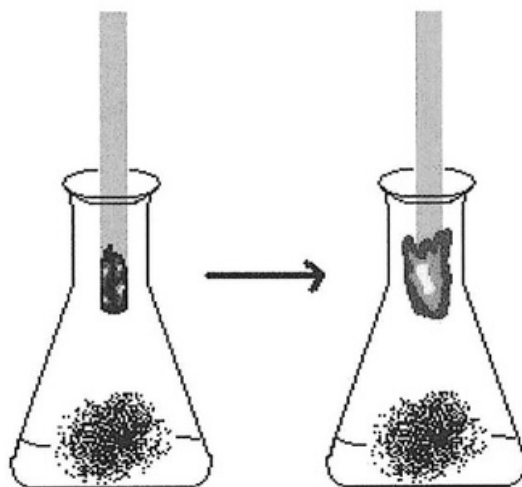


D.

29. Why do farmers use fertilisers?

A. They add nutrients to the soil.
 B. They kill unwanted organisms in the soil.
 C. They make crops resistant to organisms.
 D. They provide water to the plant.

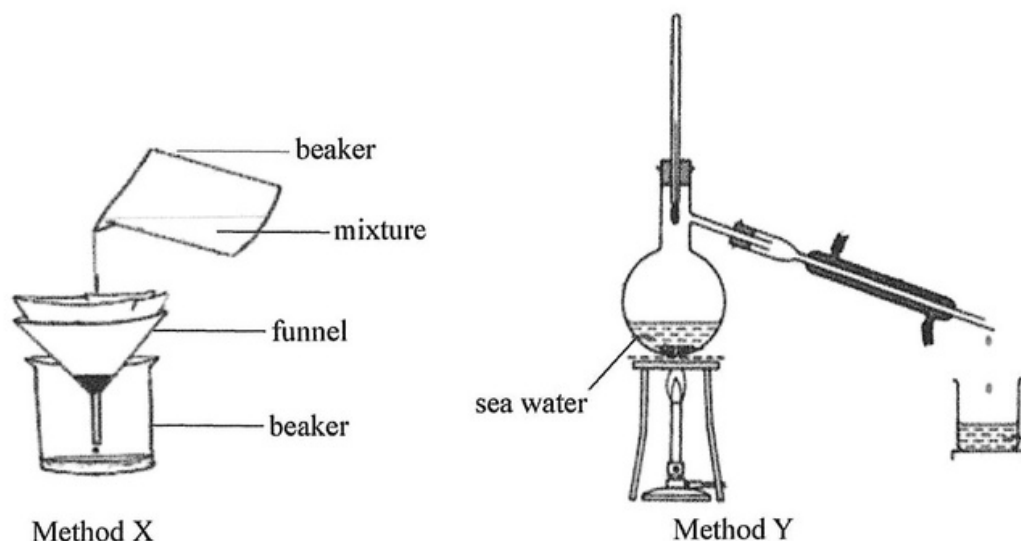
30. John uses the apparatus shown to test for a certain gas in the laboratory. Which gas relights a glowing splint?



A. carbon dioxide
 B. chlorine
 C. nitrogen
 D. oxygen



34. The diagram shows two methods of purifying water.



Which two methods are shown in the diagram?

	Method X	Method Y
A.	distillation	filtration
B.	filtration	distillation
C.	evaporation	distillation
D.	distillation	evaporation

35. Which row in the table correctly describes the functions of vitamins, minerals and water in the diet?

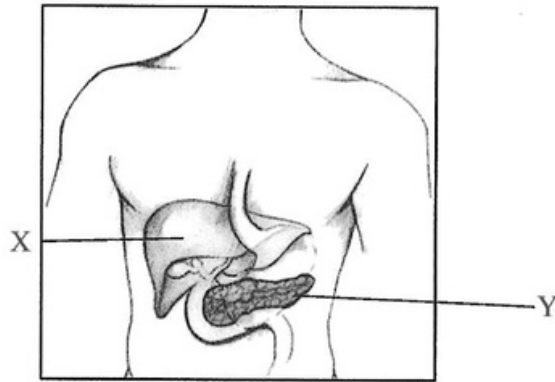
	Vitamins	Minerals	Water
A.	boost immune system	provide energy	repairs tissues
B.	make hormones	maintain healthy bones	hydrates the body
C.	maintain healthy bones	maintain healthy teeth	hydrates the body
D.	provide energy	keep the body working	allows digestive system to function properly

36. Which row in the table correctly identifies the end products of carbohydrate, fat and protein digestion?

	Carbohydrate	Fat	Protein
A.	fatty acids and glycerol	amino acids	calcium
B.	fibre	lipase	glucose
C.	glucose	fatty acids and glycerol	amino acids
D.	sucrose	starch	lipase



37. The diagram shows two organs in the human body. Give the names of organs X and Y and their functions.



	Organ X/function	Organ Y/function
A.	liver/produces enzymes	pancreas/produces gastric juice
B.	liver/produces bile	pancreas/produces insulin
C.	pancreas/produces enzymes	stomach/stores bile
D.	pancreas/produces bile	stomach/produces gastric juice

38. During puberty, which sign is **not** common to males and females?

- A. body and pubic hair grows
- B. grow taller
- C. oily hair and skin
- D. shoulders broaden

39. What is technology?

- A. anything that completes a task without human help
- B. anything that has electrical circuits or electronics
- C. the application of science to solve problems
- D. the study of the natural world using experiments

40. Which of the following is the function of the firewall?

- A. authentication
- B. data transmission
- C. monitoring
- D. security



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