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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)**

Thursday **28 May 2020** 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 next to the answer which you have chosen.

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

Calculators are NOT permitted.



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

1. Which of these should **NOT** be worn in a laboratory?



A



B

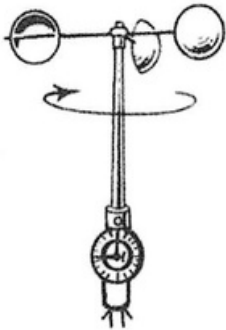


C

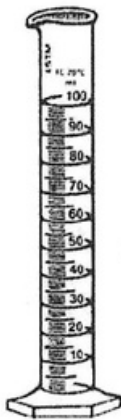


D

2. Which scientific apparatus measures force?



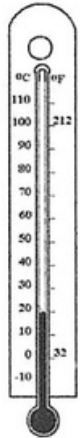
A



B



C



D

3. To which branch of science does biology belong?

- A Earth Science
- B Life Science
- C Physical Science
- D Space Science

4. Which of the following is **NOT** a part of the Animal Kingdom?

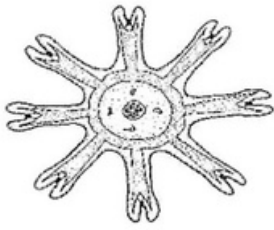
- A amphibian
- B crustacean
- C virus
- D worm

5. What do we call the amount of space occupied by matter?

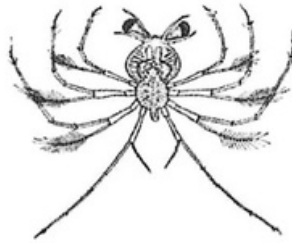
- A energy
- B force
- C mass
- D volume



6. Which diagram shows the larval form of the Queen conch?



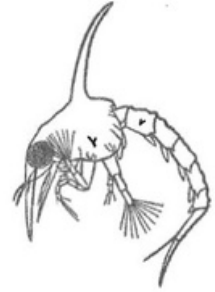
A



B



C



D

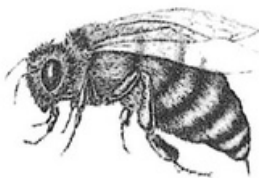
7. A thick, dark oil layer covers the sea above a coral reef. What changes would be most destructive to the organisms below?

- A decrease in carbon dioxide and light
- B decrease in carbon dioxide and oxygen
- C decrease in oxygen and light
- D decrease in temperature and oxygen

8. Which section of a report of an experiment would evaluate the observations?

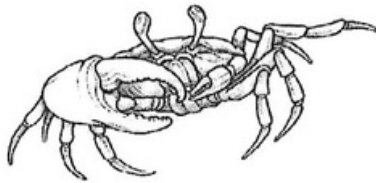
- A Aim
- B Apparatus
- C Conclusion
- D Method

9. Which organism is a crustacean?



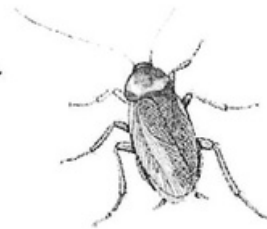
bee

A



crab

B



cockroach

C



millipede

D

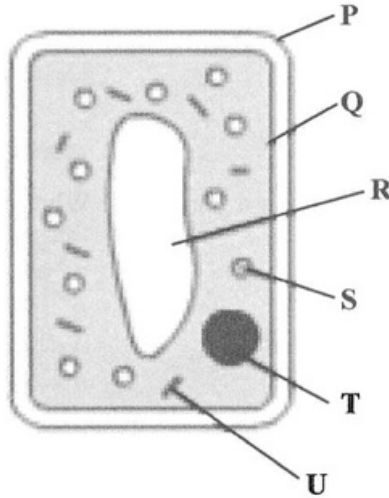
10. Which structure gives plant cells their shape?

- A cell membrane
- B cell wall
- C nucleus
- D vacuole

11. What is the agent of pollination of the maize flower?

- A birds
- B insects
- C water
- D wind

12. The diagram shows a plant cell.



Which **TWO** structures are found only in a plant cell?

- A P and Q
- B P and U
- C Q and R
- D R and T

13. Which crop should a farmer plant in a nitrogen-poor soil?

- A carrots
- B cassava
- C pigeon peas
- D tomatoes

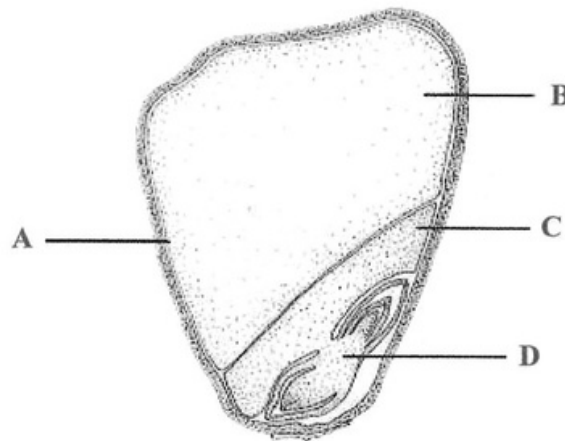


14. The food chain shows the numbers of organisms in a forest.

Acorns	200
↓	
Squirrels	75
↓	
Snakes	15
↓	
Owls	3

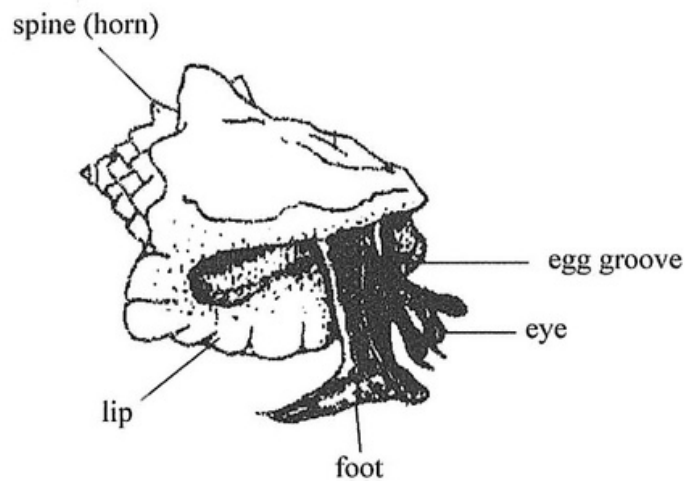
What is the average number of consumers in the forest?

- A 31.00
 B 73.25
 C 93.00
 D 293.00
15. The diagram shows a longitudinal section of a maize grain. Which part has stored energy used for growth during germination?



16. What is the name of the process which describes how energy is released from food in all living organisms?
- A excretion
 B growth
 C nutrition
 D respiration
17. Which substance is **NOT** needed for germination to take place?
- A oxygen
 B soil
 C suitable temperature
 D water

18. In which form is nitrogen absorbed by plants?
- A ammonia
 - B nitrates
 - C phosphates
 - D sulphates
19. What form of energy comes from the sun?
- A geothermal
 - B solar
 - C sound
 - D tidal
20. Which of the following can be used to test for the presence of fats?
- A Benedict's solution
 - B Biuret
 - C ethanol
 - D iodine solution
21. The diagram shows a Queen conch.

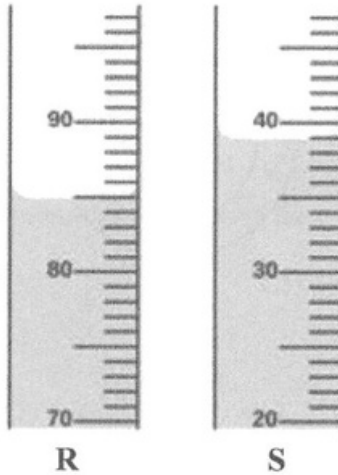


Which **TWO** parts are used to determine the age of the conch?

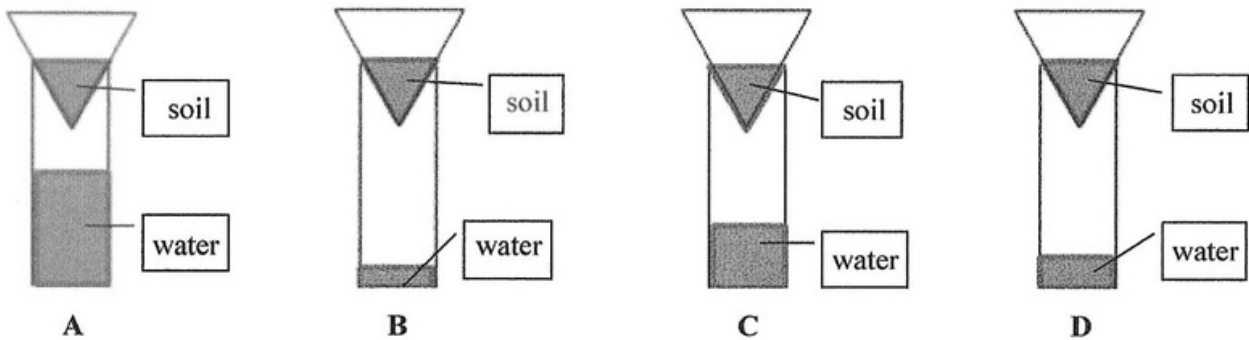
- A egg groove and foot
- B foot and lip
- C lip and spine
- D spine and egg groove



22. What is the difference in volume between measuring cylinders **R** and **S**?



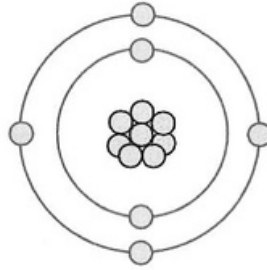
- A 39 ml
 B 46 ml
 C 85 ml
 D 124 ml
23. What is produced when sound waves are reflected from a solid surface?
- A a beam
 B an echo
 C an image
 D a shadow
24. Which soil sample absorbs and holds the **least** amount of water?



25. Which is **NOT** a physical property of matter?

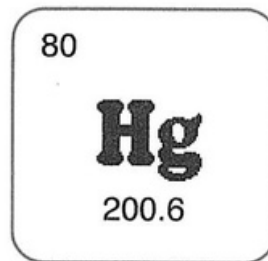
- A colour
 B ductile
 C flammable
 D malleable

26. How many electrons are shown in this atom?



- A 2
- B 4
- C 6
- D 8

27. Which element in the Periodic Table is represented in the diagram below?



- A Hydrogen
- B Mercury
- C Phosphorus
- D Zinc

28. What is the best way to purify well water?

- A boiling
- B chlorination
- C decantation
- D filtration

29. Most of our foods are preserved from the harmful effects of micro-organisms which cause foods to spoil. Which process kills bacteria in liquid foods such as milk?

- A canning
- B drying
- C irradiation
- D pasteurisation



30. Which line diagram shows the correct pathway taken by a human egg cell?

- A ovary → oviduct → uterus
 B ovary → uterus → oviduct
 C oviduct → ovary → uterus
 D oviduct → uterus → ovary

31. Into which structure do sperm cells pass when they leave the epididymis?

- A seminiferous tubule
 B ureter
 C urethra
 D vas deferens

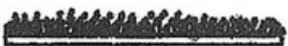
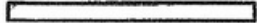
32. Which row in the table shows the correct information about human reproduction?

	body part	produces	found in
A	testes	eggs	males
B	ovaries	oestrogen	females
C	seminal vesicle	testosterone	males
D	prostate gland	progesterone	females

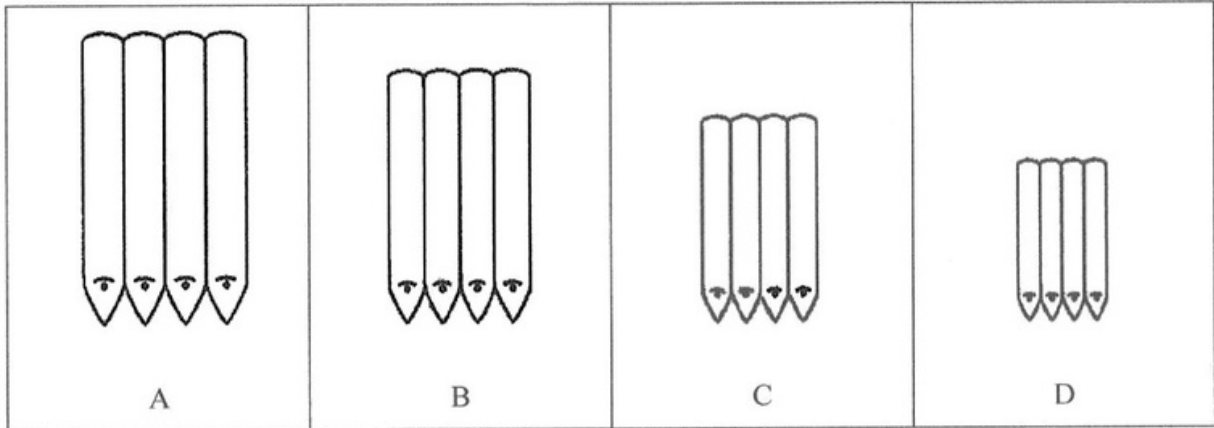
33. Which structure is **NOT** a part of the male reproductive system?

- A epididymis
 B bladder
 C prostate gland
 D scrotum

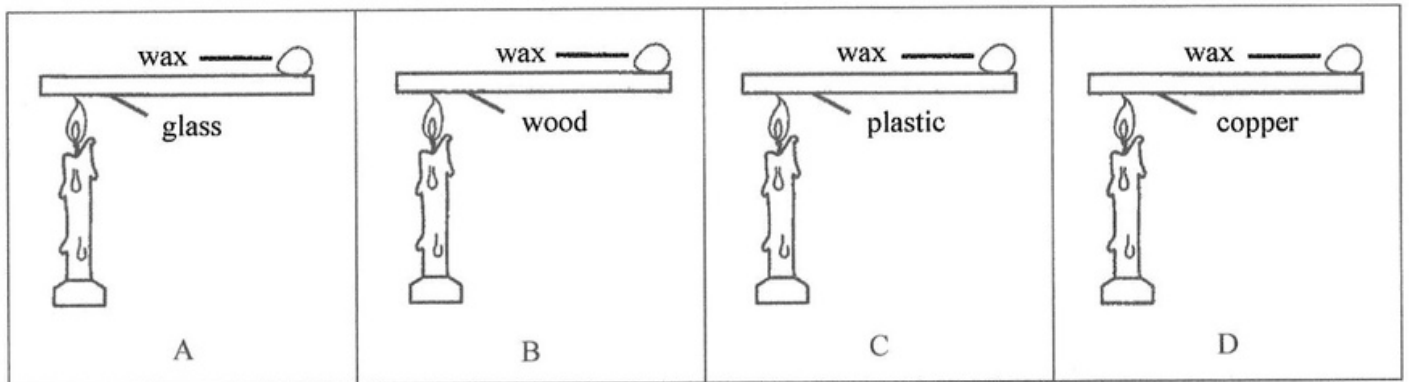
34. Which surface would provide the **least** friction when walking?

			
rug	dry wooden floor	dry smooth tile floor	wet smooth tile floor
A	B	C	D

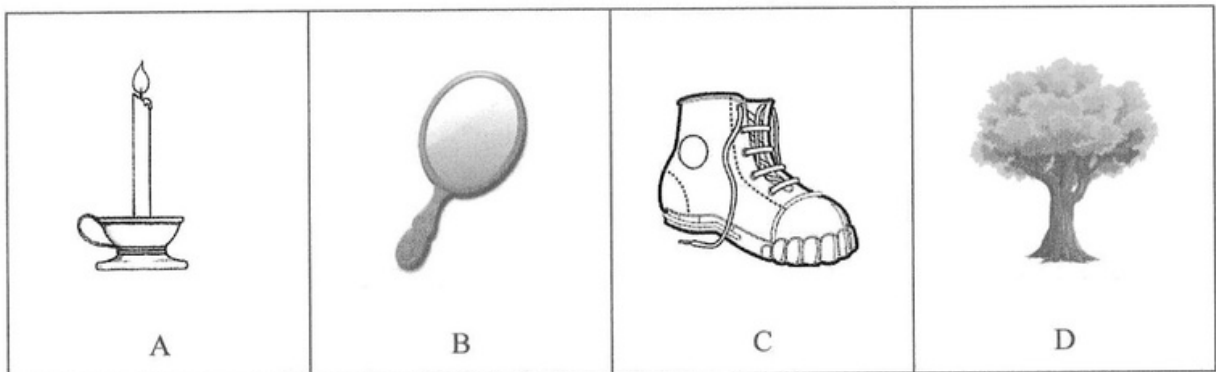
35. Which organ pipes produce the highest pitch?



36. In which diagram would conduction occur fastest?



37. Which item is a luminous object?



38. A mango falls from a tree with a force of 10N and travels a distance of 1.5m. How much work was done?

- A 3 Nm
- B 12 Nm
- C 15 Nm
- D 20 Nm



39. What do we call the opposition to the flow of electrons?

- A amperes
- B current
- C resistance
- D voltage

40. How many calories are there in a chicken sandwich containing 15 g of protein, 18 g of carbohydrates and 3 g of fat?

nutrient	amount in grams	no. of calories produced when burned
Fat	1	9
Carbohydrate	1	4
Protein	1	4

- A 17 calories
- B 36 calories
- C 159 calories
- D 195 calories

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