SECTION A

Answer ALL the questions in this section.

Each questions or statement is followed by four suggested answers or completions. Choose the BEST ANSWER or COMPLETION and write the letter next to it in the answer box.

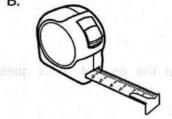
1. A plumber wants to find out the diameter of a pipe.

Which of the following instruments should he used to measure the external diameter of the pipe accurately?

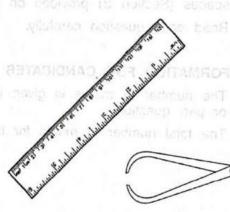
C.



B.



D.



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2. Table 2 shows the freezing and boiling points of four liquids.

	Mercury	Alcohol	Pentane	Water
Freezing point (°C)	-39	-114	-130	0
Boiling point (°C)	357	78	36	100

Table 2

Which liquid can be used in a thermometer to measure temperature between -50°C and 50°C?

- A. Alcohol
- B. Mercury
- C. Pentane
- D. Water
- A group of four Y8 students uses a stop watch to measure the time taken for their friend, Asri to run one complete round at the field track. Figure 3 shows the stop watch at the start and end of one complete round.

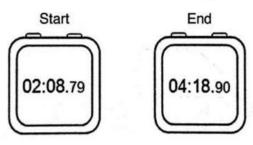


Figure 3

Who reads the time taken for Asri to run one complete round at the field track correctly?

- A. Abdul Wahab
- 2 hours
- 10.79 minutes

- B. Aziemah
- 2 hours
- 10.11 minutes

- C. Masni D. Zulfa
- 2 minutes 10.11 seconds
- 2 minutes 10.90 seconds



4. Solid X and Liquid Y in Figure 4 have definite volume

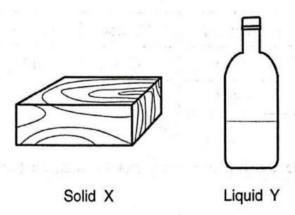
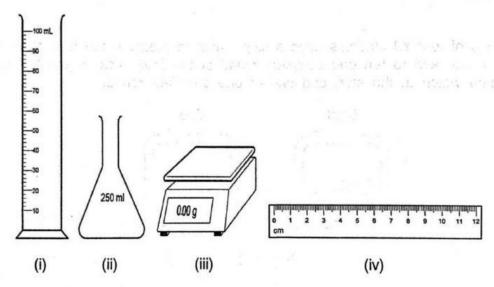


Figure 4

The apparatus below are found in science laboratory.



Which of the following apparatus is used for finding the volume of solid X and Liquid Y?

	Solid X	Liquid Y
A.	(i)	(iv)
B.	(i)	(ii)
C.	(ii)	(iii)
D.	(iv)	(i)



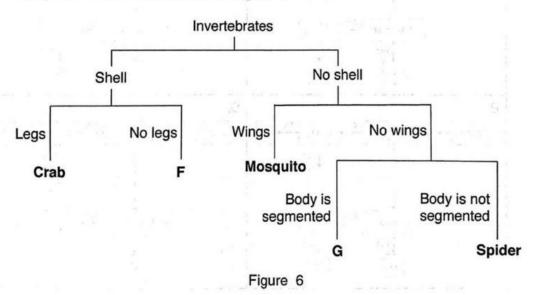
Figure 5

Which of the following stimuli will cause a response in this plant?

- A. Gravity
- B. Light

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- C. Touch
- D. Water
- 6. Study the classification chart in Figure 6.



Which of the following are possible invertebrates F and G?

	Invertebrate F	Invertebrate G
Α.	Centipede	Earthworm
B.	Centipede	Snail
C.	Earthworm	Snail
D.	Snail	Earthworm

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Turn over





7. Table 7 describes the characteristic of four different animals.

Animal	Give birth (√/x)	Hair (√/火)	Scales (√/≭)	Fly (√/ϫ)
Р	✓	1	×	×
Q	1	×	✓	×
R	×	×	×	1
S	*	×	×	×

Table 7

Which of the following charts best represent the animals in Table 7?

C. give birth to young give birth to young Animals can fly Animals can fly Yes Yes Yes R S have scales have scales have hair have hair Yes Yes Yes Yes P Q P Q D. B. give birth to young give birth to young Animals can fly Animals can fly Yes Yes S Yes Yes Q have have have hair have hair scales Yes Yes Yes Yes P P R Q

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8. Figure 8 shows the water before placed in a freezer.

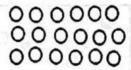


Figure 8

Which diagram represents the arrangement of particles when the liquid freezes?

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В.	*****		nenta. ? ments.	contains 4 mol contains 4 eler contains 11 eler contains 11 eler	The mixture The mixture	E. C.
C.	000000			lewings is a mi		
	0000	0 0	0	No sport	Bionze Narogen Sat Sugar	A.B.C.C.C.C.C.C.C.C.C.C.C.C.C.C.C.C.C.C.
	0 0	_				

- 9. Which of the following processes can be considered as diffusion?
 - A. A snoring person in the middle of the night
 - B. Sand pouring to the ground from a moving truck
 - C. The smell of frying eggs during breakfast
 - D. Water entering your ear during swimming



D.

10. Figure 10 represents a mixture of carbon dioxide, CO₂, and carbon monoxide, CO.

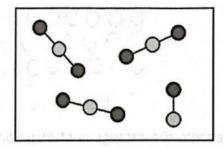


Figure 10

Which statement is correct?

- A. The mixture contains 4 molecules.
- B. The mixture contains 4 elements.
- C. The mixture contains 11 elements.
- D. The mixture contains 11 molecules.
- 11. Which of the followings is a mixture?
 - A. Bronze
 - B. Nitrogen
 - C. Salt
 - D. Sugar

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				SHIP OF S				

C. The smell of trying aggs during bre-first

D. Water entering your ear duding avienting



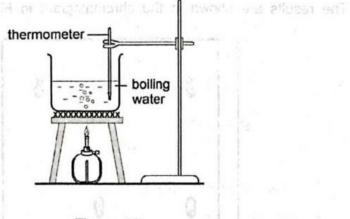


Figure 12

They heated the water for ten minutes and measure the temperature every 2 minutes interval.

Which of the following variables are kept the same in the experiment?

-	Size of beaker	Volume of water
Α.	×	×
B.	×	✓ 5 C % 4 b 5 a
C.	✓	x S bas
D.	✓	✓

13. A student wishes to extract a coloured solution from some berries to make an indicator solution.

Which of the listed instructions should the student follow?

1	crush the berries
2	add acid
3	add a solvent
4	filter the mixture
5	distil the filtrate

- A. 1, 2 and 4
- B. 1, 3 and 4
- C. 2, 3 and 5
- D. 2, 4 and 5

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14. A mixture of two sugars are compared with four different known sugars using chromatography.

The results are shown in the chromatogram in Figure 14.

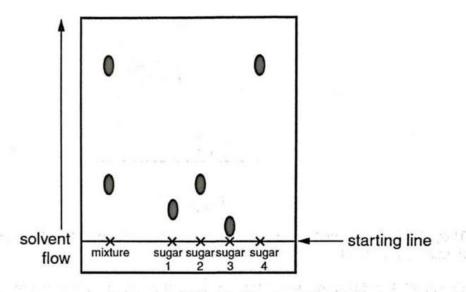


Figure 14

Which of the two known sugars does this mixture contain?

- A 1 and 2
- B. 1 and 4
- C. 2 and 3
- D. 2 and 4
- 15. Figure 15 shows human cheek cells found in human body.

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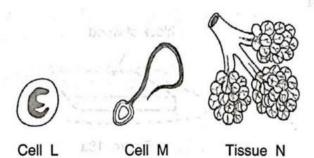
Figure 15

How many cell walls can be seen?

- A. 0
- B. 1
- C. 2
- D. 3



16. Figure 16 below shows cell L, cell M and tissue N in a human body.



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Which systems are associated with cell L, cell M and tissue N?

	Cell L	Cell M	Tissue N
A.	Reproductive system	Transport system	Respiratory system
B.	Respiratory system	Reproductive system	Transport system
C.	Transport system	Respiratory system	Reproductive system
D.	Transport system	Reproductive system	Respiratory system

17. How much work is done when a weight of 12N is raised vertically through 50cm shown in Figure 17?

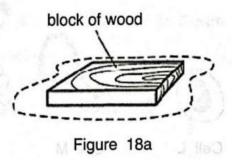


Figure 17

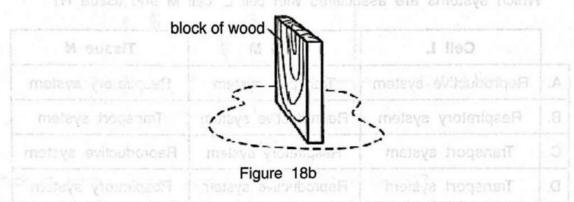
- A. 6 Nm
- B. 12 Nm
- C. 60 Nm
- D. 120 Nm



18. A block of wood with flat, rectangular sides rests on a table as shown in Figure 18a.



The wood is now turned so that it rests on the table on its smallest side as shown in Figure 18b.

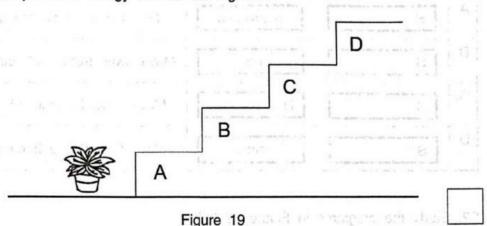


Describe the change in force and pressure exerted by the brick on the table.

sil (as	Force at MS1	Pressure	much work is done
Α.	increased	increased	shown in Figure
В.	increased	unchanged	
C.	unchanged	increased	Fire transport
D.	unchanged	unchanged	

19. Azmi wants to place a potted plant on the steps leading up to the stage.

At which position, A, B, C or D, in Figure 19 should the potted plant be placed so that its potential energy will be the highest?



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20. Figure 20 shows two identical ring magnets arranged through a plastic stick. The two rings 'float'.

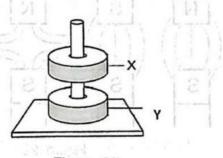


Figure 20

Which of the following explain why the ring magnet 'floats'?

- A. Magnet X and Y attracts as they have like poles facing each other.
- B. Magnet X and Y attracts as they have unlike poles facing each other.
- C. Magnet X and Y repels as they have like poles facing each other.
- D. Magnets X and Y repels as they have unlike poles facing each other.

AC

