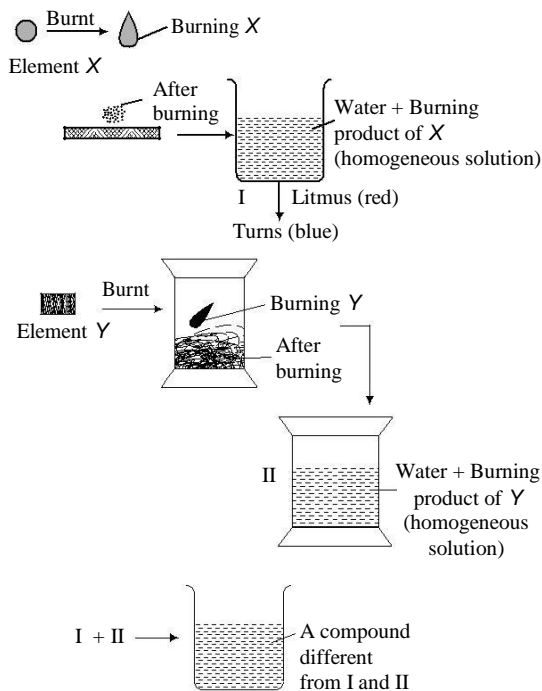


PRACTICE SET 1

A Whole Content Based Test for Class 8th Science Asiad

1. Consider the following schematic diagram.



Identify X and Y.

- A X and Y both are metals
- B X and Y both are non-metals
- C X is metal and Y is non-metal
- D X is non-metal and Y is metal

2. Match the following columns.

Column I	Column II
A. Frictional force	1. Comb with dry hair
B. Electrostatic force	2. Bullock pulling cart
C. Muscular force	3. Rolling ball
D. Gravitational force	4. Apple falling from tree

CODES

A	B	C	D
A 1	4	3	2
B 2	3	1	4
C 3	1	2	4
D 3	2	1	4

3. Which of the following factors affect the natural habitat of endemic species?

- I. Destruction of their habitat.
- II. Increasing human population.
- III. Introduction of new species.
- IV. Introduction of same species.

- A I and II
- B II and III
- C I, II and III
- D I, II, III and IV

DIRECTION (Ques. 4-6) Read the passage given below and answer the questions that follow:

Polymers are found everywhere around us. If we take a look, we will find that from the comb that we use to comb our hairs, the TV set, its remote, DVD, CD, medicine's bottles, even our clothes (nylon, terylene or blended) all are made up of polymers. So, think is our life so easy and comfortable in the absence of polymers. There are several types of polymers and which polymer should be used for a particular application depends completely upon the properties of the polymeric material.

Properties of some of the polymeric materials are listed below:

Polymeric material	Production cost	Chemical resistance	Melting point	Strength (rigidity)	Transparency
A	High	High	High	High	Good
B	Low	Low	High	Moderate	Poor
C	Low	Low	Low	Low	Opaque
D	Low	Low	Low	Low	Poor
E	High	Low	High	Very high	Opaque
F	Low	High	High	High	Poor

4. The polymeric material suitable for (I) disposable tableware like plates for hot meals or coffee cups (II) moving plastic components in a machine respectively are
- A and B
 - B and E
 - E and F
 - A and C

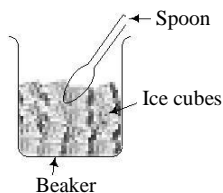
5. The polymeric material used for making (I) containers for high volume production line of acids or alkalis and (II) laboratory volume measuring instrument, respectively are

- A and F
- F and A
- B and E
- E and B

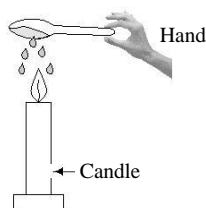
6. The material suitable for (I) clothing fabrics and (II) supermarket carrier bags, respectively are

- C and D
- A and C
- E and F
- A and B

7. Seema took a spoon and kept it in contact with ice-cubes for some time.



After that, she placed the same spoon over the flame of a small candle. Her observation is shown below.



The above observation shows that

- the spoon is made up of an inflammable substance
- burning of candle is a spontaneous process
- carbon dioxide is a product of combustion process
- water vapour is a product of combustion process

8. A man sharpens his knife as shown in the figure. Which of these properties of friction are in use ?



- Friction helps us to hold objects.
 - Friction acts in the opposite direction of motion.
 - Friction causes the surfaces in contact to wear away.
 - Friction produces heat energy.
- I and II
 - I, III and IV
 - III and IV
 - All of the above

9. Select the correct match.

- Lightning conductor → Electric current
- Seismic zones → Weak
- Moving charges → Earthquake
- Earth's plate → Protection

10. Match the items given in Column I with their suitable match given in Column II and choose the correct answer using the codes given below:

Column I	Column II
A. Mercury	1. Turns red litmus blue
B. Carbon dioxide	2. Exist in liquid state
C. Gold	3. Can be beaten into sheets
D. Magnesium oxide	4. Can be cut with a sharp knife
	5. Turns blue litmus red

CODES

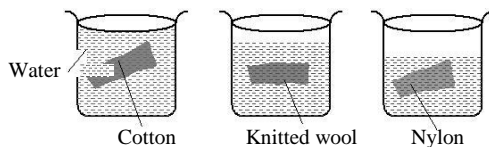
- | | | | |
|-----|---|---|---|
| A | B | C | D |
| A 2 | 1 | 3 | 5 |
| B 2 | 1 | 4 | 5 |
| C 2 | 5 | 4 | 1 |
| D 2 | 5 | 3 | 1 |

11. Consider the statements given below and opt the option that declares them correctly either true (T) or false (F).
- Prokaryotic cells do not have cell nucleus.
 - Genes are responsible for inheritance.
 - An electron microscope magnifies objects over 500,000 times.
 - Cells arise from nutrients.
 - Chromosomes are made up of DNA.

CODES

A	B	C	D	E	
A	T	T	F	F	T
B	T	T	F	F	F
C	T	T	T	F	T
D	T	T	T	F	F

12. Seema took three fabrics, i.e. cotton, knitted wool and nylon. She cut equal pieces from each fabric and placed each one in a beaker containing 500 mL of water separately.



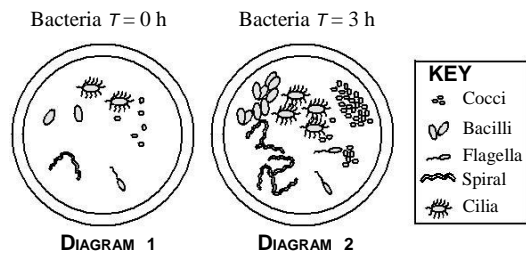
After 15 min, she took the fabric out of water, weigh each fabric and record her observation. The observations made by her are as follow:

Fabric	Mass before dipping in water (g)	Mass after dipping in water (g)
Cotton	28	60
Knitted wool	30	45
Nylon	26	40

The observation of which fabric made by her is false?

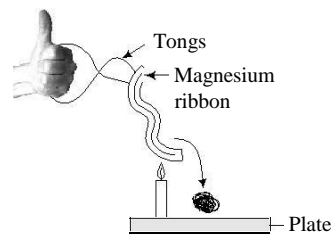
- Nylon
 - Knitted wool
 - Cotton
 - All the observations are correct
13. Which of these exhibits an advantage of friction?
- A rolling ball stop after sometime.
 - An eraser becomes smaller every time we use it.
 - Parts of machines that keep rubbing against each other get worn out.
 - A car brakes are applied suddenly to avoid an accident.

14. The diagrams represent samples of bacteria growing in a dish of nutrient. Diagram 2 shows the sample after three hours.



Which type of bacterium is multiplying the fastest?

- Cocci
 - Bacilli
 - Spiral
 - Cilia
15. Rohan took a magnesium ribbon and burnt it in air.



The product(s) obtained during this experiment is/are

- Magnesium oxide
 - Magnesium nitride
 - Magnesium carbonate
- Only I B
 - Only II C I and II
 - I, II and III
16. Versha made the following inferences.
- The water in pond P is not polluted.
 - The water in pond S is the most polluted.
 - The water in pond R is more polluted than pond S.
 - The water plants survive best in the water from in ponds P and Q.
- Which of Versha's inferences are correct?
- I and II
 - II and III
 - I, II and IV
 - I, II, III and IV

17. Match the items given in Column I with their most suitable match given in Column II and choose the correct answer using the codes given below:

Column I	Column II
A. LPG	1. Plastic
B. CNG	2. Petroleum gas in liquid form
C. Conversion of coal into coke	3. Natural gas
D. Petroleum	4. Coal gas
	5. Producer gas

CODES

A	B	C	D	A	B	C	D		
A	4	3	5	1	B	2	3	5	1
C	2	4	5	1	D	2	3	4	1

18. Which of the following cannot be charged easily by friction?
- A A plastic scale B A copper rod
C An inflated balloon D A woollen cloth
19. Identify the correct statement from the following with reference to mitochondria.
- A They are found both in plant and animal cells.
B Their inner membrane has projections called cristae.
C They contain different kinds of colouring pigments.
D They are involved in storage and release of energy.
20. **ASSERTION (A)** Non-renewable natural resources need to be conserved.
REASON (R) The rate of the consumption of non-renewable resources is much higher than the rate of their replenishment.
- A Both A and R are true and R is the correct explanation of A
B Both A and R are true, but R is not the correct explanation of A
C A is true, but R is false
D R is true, but A is false
21. Which of the following factors is least likely to cause a significant decrease in the number of fish in a lake?
- A Excessive rainfall
B Excessive fishing activities
C Increased acidity of the water
D Increased amounts of pollutants

22. Some students were performing experiment in the laboratory. One step of their experiment involve heating of alcohol. However, their science teacher strictly instructed them not to heat the alcohol directly on the flame.

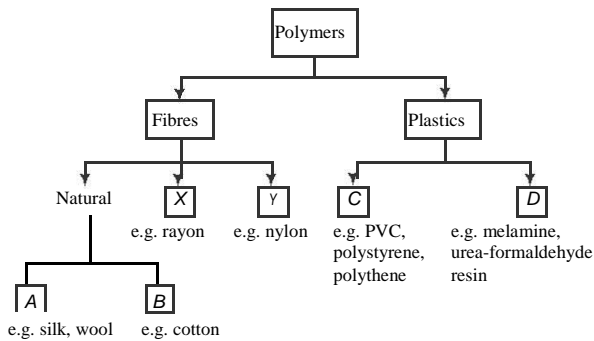
Why do you think, the teacher gave such an instruction?

- I. The temperature of the flame is not high enough to heat the alcohol.
II. Alcohol is highly inflammable substance.
III. The heat of the flame is sufficient to overcome the ignition temperature of alcohol, so it can easily catch fire.

The correct reason(s) is/are

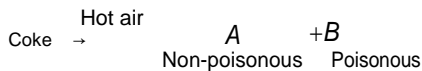
- A I and II
B II and III
C I and III
D Only III
23. **STATEMENT I** Prokaryotes have a cell wall, whereas in eukaryotes, it is absent.
STATEMENT II Prokaryotes have a true nucleus while eukaryotes have a primitive nucleus.
- A Both statements I and II are true but statement II is the correct explanation of statement I
B Both statements I and II are true but statement II is not the correct explanation of statement I
C Statement I is true but statement II is false
D Both statements I and II are false
24. Consider the following statements.
- I. Oxygen is lighter as compared to carbon dioxide.
II. Emission of potassium bicarbonate near a fire, gives off carbon dioxide.
III. Carbon dioxide is stored at a low pressure in cylinder.
IV. Carbon dioxide is stored at high temperature in a cylinder.
- The correct statement(s) is/are
- A I and II
B II and III
C I, II and III
D I, II, III and IV

25. Mr Verma while teaching in the class, showed the classification of fibres and plastics in the following manner:



He left some gaps and marked them as X, Y, A, B, C and D. Now, he asked to choose the correct set for these marks. Could you help to select the correct choices?

- A X -synthetic, C-thermoplastic, A-cellulose
 - B Y -synthetic, D-thermoplastic, B-cellulose
 - C Y -synthetic, C-thermoplastic, B-plant fibre
 - D X -semi-synthetic, D-thermosetting, A-plant fibre
26. When hot steam is passed through the coke, the following reaction takes place.

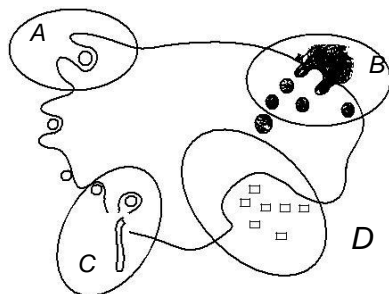


Increased concentration of A is a cause of

- I. acid rain
- II. global warming
- III. greenhouse effect

The correct answer(s) is/are

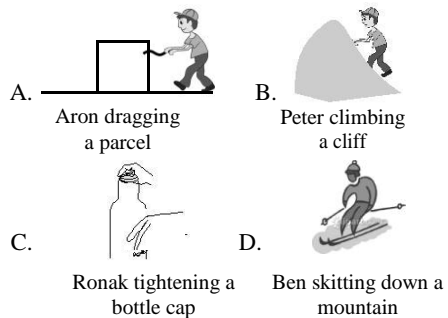
- A I and II
 - B II and III
 - C Only II
 - D I, II and III
27. In the figure given below, the structures showing endocytosis by phagocytosis and pinocytosis. From these, opt the part showing pinocytosis.



CODES

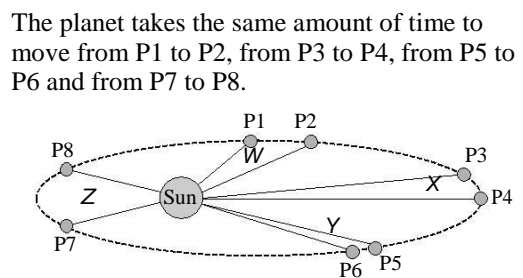
- A A
- B C
- C D
- D B

28. The four activities (A, B, C and D) below show forces at work.



Which of the following activities require the presence of frictional force?

- A Activities A and B
 - B Activities B and C
 - C Activities A and C
 - D All the activities
29. The diagram below shows a planet at various positions as it orbits around the sun. The areas W, X, Y and Z are all equal to each other.



The speed of the planet is greatest as it travels from

- A P1 to P2
 - B P3 to P4
 - C P5 to P6
 - D P7 to P8
30. Observe and identify the number of nitrogen fixers hidden in the crossword.

I	S	C	Y	A	N	O	A	N	O	C
N	P	A	B	A	C	T	Z	O	X	L
C	I	N	O	S	T	C	O	S	N	O
K	R	A	E	R	I	A	T	T	O	S
I	I	B	L	F	G	M	O	P	I	T
A	L	A	Z	O	T	O	B	A	C	R
U	L	E	I	N	O	U	A	L	T	I
M	U	N	O	S	T	O	C	A	A	D
T	M	A	I	C	C	I	T	N	X	I
S	Y	M	B	I	O	T	E	T	I	U
N	I	T	R	O	G	E	R	N	F	M

- A Four
- B Five
- C Ten
- D Three

