

Pattern And Marking Scheme

Class	Topic/Section	No. of Questions	Marks per Questions	Total Marks
	Practical Science	25	1	25
1 st to 4 th	Achiever's Section	10	2	20
	Grand Total	35	-	45
	Practical Science	40	1	40
5 th to 10 th	Achiever's Section	10	2	20
	Grand Total	50	-	60

1. Which of the following statements is/are correct?

- (1) The nature of the matrix differs according to the function of the tissue.
- (2) Fats are stored below the skin and in between the internal organs.
- (3) Epithelial tissues have intercellular spaces between them.
- (4) Cells of striated muscles are multinucleate and unbranched.

a) Only 2

b) Only 3

c) Both 1 and 3

d) 1, 2 and 4

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2. Refers to be given crops:

- (i) Wheat
- (iii) Gram
- (v) Pea
- (vii) Paddy

- (ii) Groundnut
- (iv) Maize
- (vi) Soyabean
- (viii) Mustard

Select the option which correctly identifies the crops grown in rainy season (P) and the crops grown in the winter season (Q):

P	Q
(i), (iii), (iv), (vii)	(ii), (v), (vi), (viii)

a)

b)

P	Q
(ii), (iv), (vi), (vii)	(i), (iii), (v), (viii)

b)

P	Q
(i), (ii), (iv), (vii)	(iii), (v), (vi), (viii)

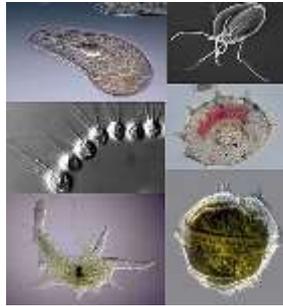
c)

P	Q
(ii), (iv), (v), (vii)	(i), (iii), (vi), (viii)

d)

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3. Refer to the given figures showing different microorganisms. Select the correct option regarding the disease caused by these microorganisms:



P



Q

Microorganism	Disease
P – Bacteria	Chicken pox
Q – Protozoa	Polio

a)

Microorganism	Disease
P – Protozoa	Malaria
Q – Bacteria	Typhoid

b)

Microorganism	Disease
P – Bacteria	Typhoid
Q – Virus	Polio

c)

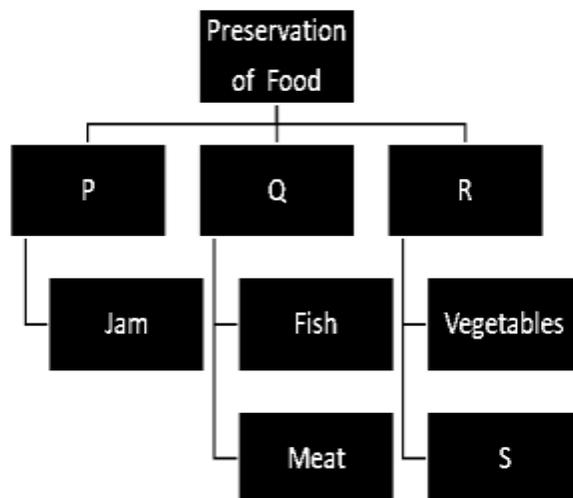
Microorganism	Disease
P – Bacteria	Tuberculosis
Q – Protozoa	Dysentery

d)

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4. Read the following statements carefully and identify P, Q, R and S respectively:
- (i) P is a plastic that once molded can't be moulded and is used to make switches and electrical appliances.
 - (ii) Q is a polymer obtained from plants which is used to produce paper products.
 - (iii) R is a plastic that gets deformed on heating and is used in building and construction.
 - (iv) S is a synthetic fiber and is used to make sweaters and tracksuits.
- a) P-Polythene, Q-Wool, R-Melamine, S-Kevlar
b) P-PVC, Q-Cellulose, R-Bakelite, S-Nylon
c) P-Bakelite, Q-Cellulose, R-PVC, S-Acrylic
d) P- Melamine, Q-Cotton, R-Polythene, S-Acrylic

5. Study the flow chart and identify P, Q, R and S respectively:



- a) P: Fruits, Q : Sugar, R : Salt, S : Oil & Vinegar
b) P: Sugar, Q : Salt, R : Oil & Vinegar, S : Fruits
c) P: Salt, Q : Sugar, R : Fruits, S : Oil & Vinegar
d) P: Oil & Vinegar, Q : Salt, R : Fruits, S : Sugar

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6. Tim was performing an experiment. He took the sample of 4 metals Al, Zn, Fe and Pb and added to the solution of copper sulphate one by one.

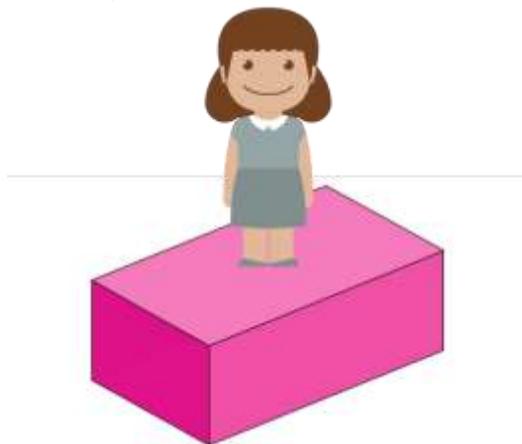
Which of the following reaction(s) is/are correct?



- a) Only 1 and 2
c) Only 1, 2 and 3

- b) Only 2 and 3
d) 1, 2, 3 and 4

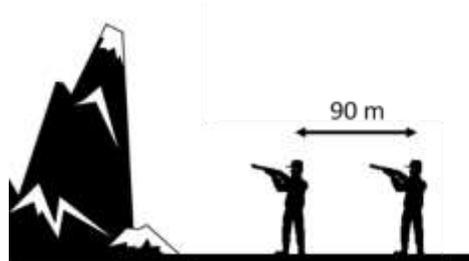
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7. A girl stands on a box having 68 cm length, 48 cm breadth and 28 cm width in three ways. The pressure exerted by the box will be _____.



- a) maximum when breadth and width form the base
b) maximum when length and breadth form the base
c) maximum when width and length form the base
b) the same in all the above cases

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8. A boy standing in front of a vertical cliff fires a gun. He hears the echo after 4 seconds. On moving closer to the cliff by 90 m, he fires again. This time, he hears the echo after 2.4 seconds. Calculate the distance of the cliff from the final position of the man:



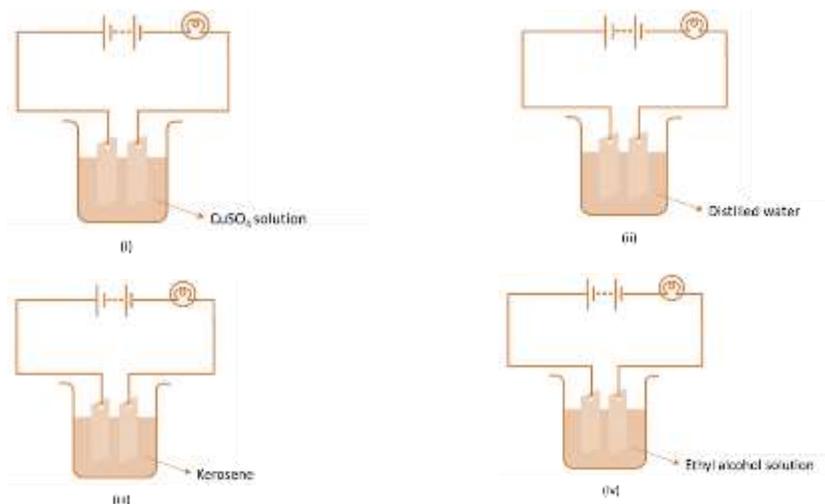
a) 112.5 m
c) 190 m

b) 22.5 m
d) 150 m

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Achiever's Section

9. Rayan conducted the experiment to check the conductivity of the following solutions. He made the following conclusion:



- P. Distilled water and ethyl alcohol are electrolyte and will make the bulb glow brightly.
Q. Copper sulphate is an electrolyte. If one of the electrodes is plated with copper, the other electrode will become cathode.
R. Copper sulphate is an electrolyte. If one of the electrodes is plated with copper, the other electrode will become anode.
S. Kerosene does not conduct electricity.

Which of the above statements is/are correct?

- a) Only P
b) Both P and Q
c) Both R and S
d) P, Q and R

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10. Read the following statements carefully:

X gives red colour in flame test and is used in making batteries.

Y gives yellow-orange colour in flame test and is used in making vapour lamps.

Z gives blue-green colour in flame test and is used in refrigeration and air conditioning applications.

Identify X, Y and Z:

a) X : Sodium, Y : Lithium, Z : Copper

b) X : Lithium, Y : Copper, Z : Potassium

c) X : Sodium, Y : Copper, Z : Potassium

d) X : Lithium, Y : Sodium, Z : Copper

Answers

1. (d), 2. (b), 3. (d), 4. (c), 5. (b), 6. (d), 7. (a), 8. (b), 9. (c), 10. (d)