

KENDRIYA VIDYALAYA SANGATAN

IIT CHENNAI -36

SCIENCE SA-2

Class:VII
Subject: SCIENCE

Mark: 60
Duration:2 1/2 hrs

SECTION -A

MCQ:

10*1=10

- 1) Which of the following cannot be called a physical change ?
a) grating cheese b) fermenting of cheese
c) melting cheese d) mixing two cheeses in a bowl
- 2) The water holding capacity is the highest in
a) sandy soil b) clayey soil c) loamy soil d) a mixture of sand and loam
- 3) Which of the following ways will help to prevent soil erosion?
a) keeping the land barren b) cutting trees
c) adding fertilizers to soil d) Afforestation
- 4) Normal range of breathing rate per minute is an average adult person at rest is
a) 9-12 b) 15-18 c) 21-24 d) 30-33
- 5) Which of the following organism respire anaerobically?
a) yeast b) fish c) earthworm d) human
- 6) Which blood vessels pick up carbon dioxide and other waste from every cell ?
a) artery b) vein c) capillary d) all the above
- 7) In plants, water is transported through:
a) xylem b) phloem c) stomata d) root hairs
- 8) The shown symbol for the battery has how many cells?

(a) 1



(b) 2

(c) 3

(d) 4

9) The coil of wire in an electric heater used for cooking is called a/an _____.

(e) Filament

(f) Element

- (g) High tension wire
- (h) Electric wire

10) The phenomenon of bouncing back of light falling on a smooth polished surface is known as a) refraction b) absorption c) polarization d) reflection

SECTION B (Short answer)

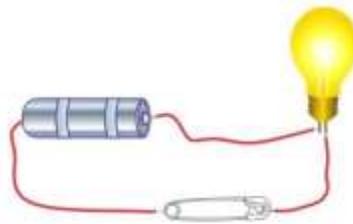
6*2=10

11) When baking soda is mixed with lemon juice, bubbles are formed with the evolution of a gas. What types change is it? Explain.

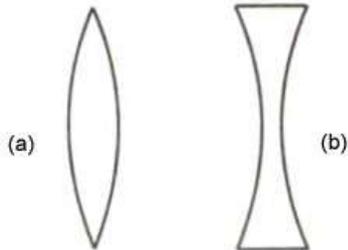
12) What is loam and why is it considered best for growing plants?

13) Why do we often sneeze when we inhale a lot of dust-laden air?

14) Draw a circuit diagram for the following electric circuit:



15) Identify the lenses shown in the given figures.



16) Give two advantages of CFLs

Section C (Short answer)

3*6=18

16) What is rusting? Suggest some ways to prevent rust of iron objects.

17) A student collected soil sample from the bank of a river near his house. If 200 ml of water percolated through the soil sample in 10 min, what is its percolation rate?

18) Ravi's father is a chain smoker. One day Ravi's science teacher told him that cigarette smoke can affect the lungs of nearby people as well. After that Ravi told him to leave cigarettes as it is a bad habit and it also affects the lungs of other family members. What values does Ravi exhibit?

19) Describe the function of the heart.

20) Draw the diagram of the human excretory system and label any three parts.

21) State the main difference between asexual and sexual reproduction .

SECTION D

4*5=20

22. Describe the various parts of a flower.

23.a) Draw the circuit diagram of an electric bell.

b) How does the electric bell work?.

24. What are green belts and why should they be developed in cities?

25. What should be done to maintain sanitation and avoid water pollution?