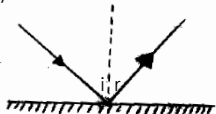


THE REAL PRIVATE TEACHER GUIDES NEXT TO PLE – 7 INTEGRATED SCIENCE - 2022

1. Electricity is clean to use as compared to charcoal/ Electricity is quick to use as charcoal is slow.
2. Mulches prevent evaporation/ direct effect of sun rays on soil.
3. It removes dirt/ sweat in clothes/ promotes personal hygiene.
4. Tetanus
5. South pole
6. A freely suspended bar magnet rests while facing in the North to South direction.
7. arteries
8. it leads to drug poisoning / death
9. when it is damaged/ cracked/ rotten/ immature.
10. medulla
11. to prevent tape worm infestation.
12. Ginger/ turmeric/ cannallily
13. From the mother to the baby at birth
14. plasma
15. chemical change
16. seeds
17. to provide vitamin A
18. It does not solidify easily/ has the lowest freezing point.
19. Corolla is a group of petals while calyx is a group of sepals.
20. To replace the lost calcium.
21. Clay soil has very fine particles than sand soil/ is sticky than sand soil.
22. Helps farmers dry harvested crops/ seeds
23. Crude oil/ petroleum
24. Slashing bushes
25. To prevent rotting of harvested crops/ there is enough sunshine to dry harvested crops.
26. Measuring cylinder
27. It is marked/ graduated
28. Foot and mouth disease
29. It releases deforestation rate/ demand for wood fuel.
30. It releases water vapour that helps in the formation of clouds.
31. To make food for the plant/ carryout photosynthesis.
32. cotyledon
33. leads to loss of water and nectar.
34. Windy weather
35. Coffee/ cotton/ tea/ apple/ mango/ orange/ lemon
36. melanin
37. it leads to air pollution/ passive smoking/ fire outbreak.
38. When temperature is high sound waves move higher above the ground/ is low sound waves move closer to the ground.
39. Convection
40. Chemical change
41. a).



(b). angle of incidence must be equal to the angle of reflection.

$$c) r + 50^\circ = 90^\circ$$

$$r + 50^\circ - 50^\circ = 90^\circ - 50^\circ$$

$$r = 40^\circ$$

42. (a)Broilers/table birds (b)broilers' mash
(c). they get feathers/ manure/ droppings/ blood/ bones (d) By cross breeding/ feeding birds properly/ upgrading/ selective breeding
- 43.a).Healthy survey
(b). Helps the government in proper planning/ provision of better health services to its people.

- c). information on sanitation/ diseases/ food and nutrition
- 44.a). it is the growing of different crops on the same piece of land seasonally.
(b). Legumes add/ fix nitrogen into the soil.
(c).To break the life cycle of pests/ starves pests/ prevent soil exhaustion (d) Leguminous crops/ Legumes
- 45.a). (i) pancreas (ii) liver
b). It produces bile (c).Pancreatic juice
- 46.a).A primary consumer feeds directly on producer while a secondary consumer directly feeds on primary consumer. (b). plants use carbon dioxide to make food/ get nutrients/ water/ support from soil/ use water to make food.(c) Bacteria/ fungi
- 47.a).Collects sound waves
b). balances air pressure in and out
(c).converts sound vibrations to impulses.
d). converts sound waves to sound vibrations
- 48.a). This is a brief loss of consciousness.
(b). fear/ sad news/ excitement/ prolonged hunger/ standing in sunshine for a long time/ anxiety
(c). Remove tight clothes/ fan the victim/ elevate the legs higher than the head.
- 49.(a) (i) wedge (ii) screw
b). Used to join pieces of wood/ metals/ fasten pieces of wood.
c). By regular sharpening.
- 50.a).(i) Generator/ Dynamo (ii) Electric motor
(b). By increasing the number of turns/ speed of rotation/ strength of magnetic field.
- 51.a).These are bad habits in the society.
(b). peer pressure/ poverty/ media/ drug abuse/ pampering children.
(c). Through keeping youth busy/ guidance and counselling them/ arresting wrong doers/ sensitizing them.
- 52.a). It stores food in the swollen underground stem.
(b). An Irish potato uses stem tuber while sweet potato uses stem cuttings/vines
- (c)in roots/ root tuber (d). by stem cuttings
- 53.a). (i) artery (ii) vein
(b). P has no valves while Q has valves/P has thick walls while Q has thin walls./ P has narrow lumen while Q has wide lumen.
- 54.a). Tick borne diseases.
(b). Ticks spread diseases/ suck blood/ damage hides/ cause irritation/ lower milk yield
c). By paddocking/ spraying/ dipping/ deticking/ hand picking/ burning old pasture.
- 55.a (i) This is the method of harvesting trees where a mature is cut at stump level.
(ii) This is the method of harvesting trees that involved cutting mature side branches.
(b) modifies climate/ helps in rain formation/ controls soil erosion/ breaks wind/ roots bind soil particles together.

