

## THE REAL PRIVATE TEACHER GUIDES NEXT TO PLE – 1 INTEGRATED SCIENCE - 2022

1. whale/sea/dolphin/sea lion/otter/wairus (iii) Baking/wine making
2. Reading fish in pounds 42.a). (i) whistle (ii) trumpet
3. Egg production b). By vibration of blown air inside them.
4. Personal hygiene/control of communicable diseases c). panpipe//saxophone//recorder//flute//horn
5. Potential energy 43.a). (i) It makes animals docile/It prevents injuries to other animals.
6. Potential energy to kinetic energy. (ii) It prevents inbreeding/It allows animals to fatten/grow fast/makes animals docile
7. transpiration b). By spraying/dipping/paddock/deticking
8. raising/hosting/lowering/school flag 44.a). soil erosion/ deep ploughing/ floods/ heavy rainfall/ over cultivation
9. semi circular canal b). mulching/ manuring/ bush following/ crop rotation.
10. Goats have low water demand than other animals./ Goats eat a variety of feeds unlike other animals./Goats tolerate high temperatures unlike other animals. 45.i). Protects the flower at bud stage.  
ii). Produces pollen grains.  
iii). Receives pollen grains during pollination.  
iv). Attracts insects for pollination.
11. It is round and disc shaped./ It is bioconcave shaped./ It has no nucleus. 46.a). (i) legumes/leguminous crops  
(ii) cereals/ cereal crops.
12. It drains moisture in meat. /It kills germs in meat. b). By spraying using herbicides/ mulching/ uprooting/ digging/ slashing
13. It can lead to easy spread of diseases./oxygen competition./suffocation 47.a). They lead to loss of water or fluids in the body.  
(b). To provide energy to the patient.  
c). By giving plenty of water/ juice/ balanced diet/ fruits/ soup/ intravenous.
14. Long sight/longsightedness 48.a). letter **C** (b) second class
15. By conduction (c). By increasing the effort arm/ greasing or oiling the moving parts.
16. It causes lung cancer (d). Bottle open/ Nut cracker/ spanner/ Human foot.
17. When a fertilized egg separates into two 49.a). list **S**
18. To prevent electric shocks (b). Animals in **R** have exoskeleton while those in **S** have hydrostatic skeleton.
19. cohesion c). (i) coelenterates (ii) Echinoderms
20. They add nutrients into the soil. 50.a). scion  
b). There is quick plant maturity/ increased plant yield/ maintenance of good qualities from parent plant.
21. Washing hands/ massaging udder with warm water/ cleaning milking utensils/ applying milking Vaseline. c). Marcotting/ layering/ budding/ stem cutting
22. It activates pepsin/ provides acidic medium. 51.a). (i) Helps in proper drying of utensils.  
(ii) Helps in proper disposal of human wastes.
23. Anopheles mosquito/ Female anopheles mosquito. b). kitchen/ dustbin/ rubbish pit/ urinal/ bathroom/ animal house/ drying line/ food store
24. Malaria / malaria fever. 52.a). Breathing means taking in and out air while transpiration is the oxidation of food to release energy.
25. By brushing teeth/ dental flossing/ rinsing the mouth. b). (i) It moves downwards and inwards.  
ii). It becomes dome shaped/ moves upwards/ relaxes
26. Through expansion or contraction of mercury as temperature rises or falls. (c). They are many in number/ surrounded by blood capillaries/ have moist surface/ thin layer
27. By biting using fangs/ spitting/ crawling away. 53.a). virus  
b). (i) staggering/ bending of the neck/ yellowish greenish diarrhoea/ mucus in mouth and nostrils.
28. Keeping drugs near children. c). Regular vaccination of birds/ burn or bury carcasses of infected birds.
29. Shorter stamen than pistil/ growth of pistil and stamen on the same plant but maturing at different time/ growth of male and female flowers on the separate plants. 54.a). phosphates are used to make fertilizers.  
b). gold/ copper/ coal/ crude oil/ natural gas/ uranium/ peat/ plutonium
30. It leads deforestation/land degradation/ air pollution c). Through recycling wastes/ using them sparingly/ alternative renewable resources.
31. Texture / Nature of material / colour/ degree of dirt. 55.a). Electrical method (b). south pole  
(c). Electric bell/ fridge/ telephone/ earpiece/ relay.
32. They mislead adolescents to buy alcohol/ convince them to buy alcohol. d). By increasing number of turns in coil/ adding more dry cells/ increasing voltage.
33. Lactometer
34. Growing crops/ rearing animals/ watering crops/ weeding/ mulching
35. They retain / conserve more heat than metallic ones.
36. A swarm catching net
37. Stocking the hive
38. Through sweating
39. They live and work together/ live in colonies.
40. To prevent injuries by piglets on teats.
- 41.a). chemical change  
b). (i) It speeds up fermentation/ acts as catalyst  
(ii) Plants get carbon dioxide.