

## BRAIN TEAR ITEM 2 GUIDE

1. Peptides.
2. The mass remains the same.
3. By convection current.
4. Water forms blood plasma,
5. Pleurisy.
6. Sound energy.
7. Vibration of the skin.
8. Wind Direction and speed, Air pressure, variation of temperature. Humidity of the air, amount of rainfall, nature of clouds.
9. Smog.
10. For cooking.
11. The object can sink in water.
12. The object is denser than water. The density of the object is greater than that of water which is 1g/CC.
13. For running machine.
14. It can easily catch fire.
15. For mopping fences.
16. Water finds its own level.
17. British American Tobacco.
18. Calcium salt, magnesium salt.
19. Bile juice
20. Physical Change.
21. Humidity is the amount of water vapour in the atmosphere.
22. Having the anthers and stigmas maturing at different time.
23.  $F = \left( \frac{9}{5} \times C \right) + 32^\circ$   
 $F = \left( \frac{9}{5} \times 50 \right) + 32^\circ$   
 $F = 90^\circ + 32^\circ$   
 $F = 122^\circ F$
24. For sucking food (blood and plant juice)
25. To regulate the body temperature.
26. It causes bad smell in class.
27. They are more sexually active
28. Air can be compressed, occupies space.
29. These are diseases that attack already weakened body
30. Sucrase, Lactase
31. It helps to alert a person to escape or dodge it easily/ It helps to protect a person from being bitten by a snake.
32. Hard objects may block the pipe.
33. They help to take out stale or warm air from the house.
34. Milk set.
35. There are 20 teeth, there are no molars.
36. Bean plant

37. Drinking soup, water and ORS.

38. The keys had rusted.

39. TO protect against gonorrhea.

40. Cuniculture is the rearing and breeding of rabbits while rabbitry is a place where rabbits are reared and bred.

## SECTION B

41. a) Mason bee, leaf cutter bee, mining bee.  
b) Bumble bee  
c) For carrying pollen.
42. a) A vacuum is a space without matter.  
b) By conduction.  
c) Water, tea, milk (Not porridge).
43. a) Due to less gravity on the moon.  
b) There is greater gravity on the earth than on the moon.  
c) The moon reflects sun's light to people.  
d) Due to upthrust force.
44. a) They have jointed legs, segmented bodies, exoskeleton.  
b) Insects breathe through spiracles while arachnids through lung books./ Insects have 3 main body divisions while arachnids 2.
45. a) i) B: yellow zone (ii) C: pale blue zone  
b) Zone C  
c) Zone B
46. a) Ingestion is the intake of food through the mouth.  
b) Colon  
c) Mouth  
d) Enzymes.
47. a) For preserving soft drinks / Putting out fire using an extinguisher.  
c) Petrol floats on water and burning continues.  
b) Solid / Solid State.
48. a) Breed K.  
b) Breeds M provide meat while Q provide milk.  
c) i) M: For meat.  
ii) K : For Mohair
49. a) i) Water borne diseases are got through drinking contaminated water.  
ii) Water contact disease are got when our bodies come in contact with dirty water.  
iii) Water habitat are diseases spread through vectors that spend some of their life stages in water.  
iv) Water cleaned are diseases got when our bodies don't have enough water for use.
50. a) Helps to remove germs from the body, helps to remove bad body smell, helps to remove dirt from the body, helps to prevent skin diseases.

b) Ringworm, Candidiasis, scabies, tooth decay, dental plague.

51.a) Spine / backbone

b)i) Y: Cerebrum

ii)Z: Cerebellum

c) For interpreting messages. / For reasoning and thinking. / For memory.

52.a) For balancing the body

b) i) Eustachian tube

ii) Cochlea.

c) - Otitis, interna, media, externa

- otalgia

- boils / ear abscess

53.a) Casting method. Placement, Spraying, Top dressing.

b) Nitrates, potassium, Phosphorus.

54.a)i) A: Series

ii)B: Parallel

b)  $3 + 2 = 5$  dry cells

1 dry cell = 1.5V

5dry cells =  $(1.5 \times 5)$

= 7.5 v

55.a) A breeze is a gentle movement of air(wind) from cooler areas to warmer areas.

b) Sea breeze, Land breeze.

c) Cooler air makes people to wear heavy clothes.