

## SCIENCE MOCK MARKING GUIDE EXAMS 2023

### SECTION A

1. Worker bees
2. Provision of warmth/ turning the eggs
3. Fibrous root system
4. Gaseous state /liquid state of matter
5. Stone particles are more compact as compared to cotton wool particles.
6. Used to carry a casualty who cannot walk
7. Rearing fish in ponds to feed on mosquito larvae.
8. Moves upwards / forms a dome shape.
9. Taking overdose/ sharing drugs/ taking under dose/ taking medicine when not sick / taking drugs at wrong time/ taking prescribed drugs
10. Soil
11. Oxygen
12. Mammals/ Mammalia
13. The above worm feeds on digested food while a hook worm feeds on blood.
14. For attachment onto the intestinal walls
15.  $D = \frac{M}{V} = \frac{50\text{ g}}{10\text{ cc}} = 5\text{g/cc}$
16. Bacteria
17. Peristalsis
18. Leads to dehydration / death
19. Drainage /poorly aerated
20. By melting/ it melts
21. Using separating funnel
22. Hippos
23. Athletes' foot / candidiasis/ dhobi itch/ jock itch/finger nail deformation.
24. Some do not have appetite because of pain/ take little food at times.
25. Massive movement of bees from one place to another looking for new hive.
26. Prevent bad smell/ control diarrhoeal diseases/ensure proper sanitation/ to control stagnation of water
27. Maternal and child health care
28. Friction force.
29. Regulation of body temperature/ prevents heat loss
30. Protect eggs from predators/ prevent eggs from drying up
31. To improve on meat/ milk protection/ to improve on resistance to diseases
32. Brain/ the brain
33. Wearing specs with convex lens
34. Measures humidity/ amount of water vapour in the atmosphere
35. Improves on soil aeration/ die and decompose to form humus.
36. By the help of the thick walls.
37. Third class levers
38. Ovulation
39. The water contains germs/ filtration doesn't kill germs
40. The sun/ sun

### SECTION B

41. a)i) pinna/ ear lobe ii) auditory nerves  
b) It contains fluids that help in body balance.  
c) cleaning using soft materials/ reducing on ear wax using ear bud / going for regular checkups/ feeds on a balanced diet/ avoid staying near noisy places/ avoid pushing sharp objects in the ear.
- 42.a) Blood plasma/ plasma  
b) water/ digested food/ hormones/ mineral salts/ urea/ lactic acid/carbondioxide  
c) Engulfing germs/ engulfing and digesting germs / production of antigens
43. a) Switch / electric switch  
b) To produce electricity/ current  
c) Both can break the circuit

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- d) Electric energy changes to heat energy and the light energy
- 44.a) Drought cattle / work type of cattle  
b) Dairy cattle triangular shaped while beef cattle are rectangular shaped.  
c) red poll/saliwall/ milking short horn
45. a) Using renewable resources/ harvesting well/ reusing them/ recycling them.  
b) leads to an pollution / soil erosion/ death of animals / destroy habitats to wild animals / leads to soil exhaustion/ leads to global warming.
- 46.a) Proteins  
b) for food absorption  
c) part 1 has completing enzymes/ digestive enzymes stopped.  
d) feeding on a balanced diet / having regular meals/doing physical exercises.
- 47.a) in the body cells/ living body cells.  
b) oxygen / digested food  
c) traps dust/ some germs
48. a) oil/ rubbish/ animal wastes/rinsing/ironing/ drying wringing  
c) wringing
- 49.a) Mulching is the covering of top soil with dry plant materials while contour ploughing is the ploughing and planting of crops across the hill.  
b) mulches prevent direct sunlight to the soil.  
c) Improves soil fertility/ controls crop pests.
50. a) Cortex                      b) blood is filtered  
c) Transports urine from the pelvis to the urinary bladder  
d) Kidney stores / kidney failure/ bilhazia/ kidney cancer.
51. polio – paralysed tissues  
Measles – skin rash  
Diphtheria – stiffness of muscles
- Tetanus – swollen neck
52. a) to assess wheather the person is still alive./ to determine or check on blood circulation.  
b) apply a kiss of life / compressing the chest/ shout for help.  
c) To reduce the pressure of flowing blood / to prevent over straining of blood vessels.
53. a) flesh/ meat  
b) gripping / holding its prey tightly  
c) A – feeds on flesh while B – feeds on vectors.  
d) have webbed feet
54. a) Spectrum is the band of the seven colours dispersed from white light.  
b) red    violet  
c) cyan/ pea cock blue
- 55.a) reduces population / artificial methods are expensive/ some natural methods are not effective.  
b) it cannot be reversed  
c) rhythm/ cervical mucus/ abstinence/ prolonged breathing

**END**