

# KOLFRAM EDUCATIONAL SERVICES KAMPALA

## P.7 SCIENCE PRE NATIONAL- MOCK SET VIII MARKING GUIDE

### Section A

1. *The skin/liver/lungs/kidneys*
2. *Bats*
3. *Biological change causes increase in size while chemical changes cause changes in size/Biological changes occur in living organisms while chemical change occurs in both living and non living things.*
4. *Bananas get shade from coffee trees/get manure when the fallen leaves of coffee rot/Bananas control soil erosion by scattering rain drops.*
5. *Training*
6. *Wedges*
7. *To hold and protect injured body part from further injuries*
8. *Has a root nodule on its roots.*
9. *Heat source, fuel, oxygen*
10. *Geckos eat mosquitoes that hide in the house.*
11. *Cancer/Asthma/accept any deficiency disease/eye defects.*
12. *He should buy new tyres/pour marram on the road.*
13. *Tendons.*
14. *Both help in breathing/gaseous exchange.*
15. *They have no chlorophyll/feed saprophytically/do not make their own food. Reject: Reproduce by means of spores because of yeast.*
16. *To allow free circulation of air in the house/allow gaseous exchange in the house/allow light into the house.*
17. *For easy swallowing/to start the process of starch digestion.*
18. *Source of food/control pests like rats and mice/source of snake venom for making anti venom.*
19. *To prevent further injury/to immobilize the injured part/to reduce weight on the injured limb.*
20. *For growing crops/construction/making bricks/blocks/making local herbs.*
21. *Circulatory system.*
22. *May lead to short circuits/may lead to fire outbreaks.*
23. *Deamination of fats/detoxicates the body/produces bile.*
24. *Cows, goats, sheep, leopard, crocodiles*
25. *Germ/pathogens/bacteria*
26. *Washing hands/utensils/cooking from clean place/Sweeping the compound/proper disposal of waste/digging pit latrines/rubbish pits.*
27. *Prevents overdose/under dose/drug poisoning.*
28. *Prevents the breeding of jiggers/seals cracks/gets rid of dust.*
29. *Lubricates the eyes/prevents eyeballs from drying/prevents friction in the eyes.*
30. *Chemical electricity.*
31. *Swollen pot belly/curly brown hair/dry scale skin/swollen joints, emaciated muscles.*
32. *Helps youth guard against AIDS/sensitizes the youth on AIDS.*
33. *Condensation.*
34. *Protection from thieves/guards the home/used for hunting/as pets/controls rats.*
35. *Heats water bodies to cause evaporation/results in evaporation.*
36. *Natural gas/uranium/peat/diesel/kerosene*
37.
38. *Vacuum has no medium of sound transfer/No molecules of matter for heat transfer.*
39. *Diarrhea can be controlled by maintaining proper personal hygiene but controlling mosquitoes and mosquito bites is difficult.*
40. *Bilharzias flukes/Hookworms.*

### Section B

41.
- (a) *Permanent teeth*
- (b) *incisors*
- (c) *teeth A tear, crush and grind food into smaller pieces*
- (d) *It has broad flat top adapted for grinding.*
42. *–*
- (a) *Heart/brain/intestines/ears/eyes/nose.*
- (b) *Eczema/scabies/measles/skin cancer/ring worms.*

(c) Bathing regularly/Eating balanced diet/applying body lotion that keeps it soft/Avoid piercing, tattooing or bleaching it.

43.

- (a) Increase crop yields/prevent crop diseases/pests/to maintain soil fertility.
- (b) Mulching/adding manure/fertilizers/bush fallowing/agro-forestry/mixed farming.

44. –

- (a) Mushroom/Toadstool/ a fungus
- (b) To produce and store the spores.
- (c) By means of spores/Spore formation
- (d) Mycelline/hyphae.

45. –

- (a) Blood pressure is the circulating blood against the walls of blood vessels.
- (b) Red blood cells/white blood cells/platelets/
- (c) Transport hormones/waste materials/heat/oxygen/helps in clotting on wounds/defends the body against germs.

46. –

- (a) Has few component parts/does not need much skill to use.
- (b) Increasing the number of pulleys in the block/oiling the movable parts.
- (c)  $E = \frac{L}{MA}$  /  $E = \frac{100 \text{ kg}}{2}$  /  $50 \text{ kgf}$

47. –

- (a) By vibration of air in the column.
- (b) Closing some of the holes when blowing the instrument.
- (c) Wind instruments
- (d) Trumpet/whistle/horn/trombone/clarinet/flute/reed pipe.

48. –

- (a) Alveoli/air sacs
- (b) To keep it open all the time/prevent it from collapsing or closing.
- (c) The trachea is closed by the epiglottis.
- (d) It is warm/moist/has more carbon dioxide than oxygen.

49. –

- (a) Strength of wind.
- (b) Lowest and highest temperatures of the day.
- (c) Atmospheric pressure.

(d) Speed of wind.

50. –

- (a) Solid, liquid, gas
- (b) Paraffin, rat poison, medicines, pesticides, herbicides, alcohol, sedatives
- (c) Poisoning is death/ injury caused by swallowing, inhaling, touching or injecting various drugs in the body while a poison is any substance that is harmful to the body.

51. –

- (a) Farm budget is the estimation of the income and the expenditure of the farm.
- (b) Income, expenditure
- (c) High taxation, poor planning, failure to know losses/ profits made.

52. –

Myopia (short-sight)/long sight (Hypermetropia)/catarracts/ night blindness  
Short eyeball/thick eye lens/long eyeball/thin eye lens/lack of vitamin A in the diet/rough cornea.  
Wearing glass with concave lens/concave lens/cylindrical lens/eating food rich in vitamin A.  
Trachoma/conjunctivitis

53.

- (a) Condoms (Reject: Use of condoms)
- (b) Human immuno deficiency virus/HIV
- (c) Long distance truck drivers/soldiers/policemen/sex workers/business men.

54. –

- (a) Induction method.
- (b) South pole
- (c) Repeated dropping/strong heating/making it rust/poor storage/repeated hammering.

55. –

- (a) (i) wheelbarrow (ii) Shovel
- (b) For watering crops
- (c) transplanting