

## P.7 SCIENCE SPECIAL MOCK -2023 MARKING GUIDE

- 1- Red blood cells
- 2- The sun heat the water bodies and vegetation to cause evaporation.
- 3- Burn
- 4- For easy swallowing since the back lacks teeth
  - For easy digestion
  - To help the baby to get used to different textures and tastes quickly.
- 5- Ureter carries urine from the kidney to the urinary bladder while urethra carries urine out of the body.
- 6- Frog
- 7- It keeps the eggs moist
  - The jelly acts as a receptor
  - The jelly also protects eggs from predators.
- 8- Stomach
- 9- Eating a balance diet.
  - Doing regular physical exercise
  - Regular visits to hospital for medical checkup.
  - Avoid eating too fatty / oily food stuffs
  - Avoid rough games
- 10- Family planning
- 11- The epiglottis closes the trachea during swallowing.
- 12- To reduce friction on movement / to overcome friction
- 13- Friction force
- 14- Compound fracture
- 15- Due to refraction
- 16- Red, yellow and blue.
- 17- Using displacement method
- 18- Skin
- 19- Chemical energy
- 20- There is no medium for transmission.
- 21- For the sheep to grow wool before wet season.
- 22- Plastic, water, leather, paper, gold, silver etc
- 23- To prevent immunisable diseases in children.
- 24- Due to high voltage / due to much flow of currents

- 25- Segment / strobili
- 26- Through eating under cooked meat.
  - Through eating un washed fruits
  - Through drinking water contaminated with tape worms.
- 27- Mulching reduces surface evaporation of water from the soil.
- 28- Urea, ammonia, uric acid, bile pigments etc
- 29- It provides antibodies to a calf.
  - It opens up the digestive tract of a calf.
  - It boosts the immune system of a calf.
- 30- Both are propagated using suckers.
- 31- Seed dispersal is the scattering of seeds from the parent plant to other new areas.
- 32- BCG vaccine
  - Polio vaccine
  - Hepatitis B vaccine etc
- 33- Smoking the pit latrine
  - Pouring ash in a pit latrine etc
- 34- Ox, donkey, camel, horses, dogs, elephants
- 35- Absence of vitamin C leads to scurvy
- 36- Lines of force of magnetisms run from north to south
- 37- Hypocotyls.
- 38- Femur, ulna, radius, tibia fibula, humerus etc
- 39- Liquid, gaseous state
- 40- For maintaining buoyancy / up thrust

### **Section B**

- 41- Pollination is the transfer of pollen grains from the anther to the stigma of a flower.
  - (b) self pollination
    - Cross pollination
  - (c) moth
- 42- Diaphragm
  - (b) Respiratory and excretory system.
  - (c) doing regular physical exercises.
    - going for medical check ups
    - avoid staying in dusty areas
    - avoid smoking
    - eating food rich in a balanced diet.

43- Cage system

- Fold pen system
- Dip litter system

(b) Poultry can easily get stolen

- poultry can easily catch diseases
- poultry can easily be eaten by predators etc

44- The skeleton supports the body in movement

- It protects the delicate body organs
- It makes body cells in bone marrows.
- It gives the body shape.

(b) Triceps – expands

Biceps – contracts

45- (a) X – reptiles      Y – amphibians

(b) (i) itch mites, ticks, scorpions, spider etc

(ii) slugs, snails, octopus, oyster etc.

46- Electrical method / Induction method / Stroking method

(b) heating a magnet to redness

- Heating a magnet repeatedly
- Hammering the magnet repeatedly
- Passing electric current through it.
- Keeping like poles of a magnet together for long.

47- (i) Highest pitch – drum A

(ii) Lowest pitch – drum C

(b) It has a small surface area for vibration / due to small surface area for vibration.

(c) xylophone, brass band, tambourine, bell / gong , bass drum, long drum etc.

48- Thermal electricity      burning fuel

Solar electricity      sun

Hydro electricity      fast flowing water

Nuclear electricity      burning uranium

49- (a) proper disposal of human wastes

- Boiling water for drinking
- Washing fruits before eating
- Proper disposal of rubbish.
- Proper way of keeping food / covering left over food
- Worming left overs before eating.

50- Plants, animals and useful fungi

(b) Oranges – vitamin C

(ii) Carrots – vitamin A

51- Y – effort + distance                      X – load distance

(b) Its fulcrum / pivot is between load and effort

(c) point K is for turning the seesaw / it is turning point

52- (i) The sun heats water in lakes and vegetation.

(ii) Evaporation and transpiration takes place.

(iii) Water vapour rises up and condense to form nimbus clouds.

(iv) The nimbus clouds become heavy and fall as rain.

53- (a) Over cultivation , mono cropping, over use of artificial fertilizers, bush burning, deforestation

(b)Top soil

(c) practicing crop rotation, afforestation, application of manure, contour ploughing, strip cropping, planting cover crops.

54- (a) Larva stage / caterpillar

(ii) Adult stage

(b) For protection / it protects the larva stage of a butter fly.

(c) caterpillar

55- (a) P – Normal ray

Q- Reflected ray / ray of reflection

(b) periscope

