## 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 anti bodies 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 tec
- 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

