

DEC PRE-PLC SET 1 SCIENCE MARKING GUIDE

- 1- Ticks, scorpion, spider
- 2- A metallic cup emits more heat than a plastic cup.
- 3- Triceps, biceps, quadriceps
- 4- A bat is more active at night.
- 5- They are fertilized externally
- 6- Biogas does not pollute the environment.

- Biogas doesn't encourage deforestation.

7-

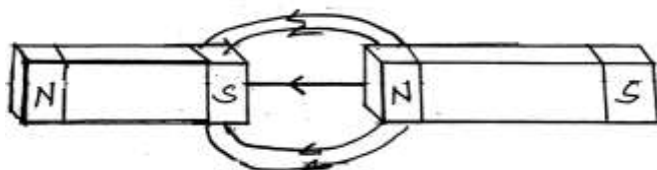


Convex lens

- 8- Umbilical cord transports digested food from the placenta to the foetus.
 - Umbilical cord transports waste products from the foetus to the placenta.
- 9- Hydrostatic skeleton
- 10-Due to fraction of light.
- 11-Fast flowing water.
- 12-Shortage of oxygenated blood supply to the brain.
- 13-Measles vaccine
- 14-Babies are born with immunity against measles that lasts for only 36 weeks.
- 15-To control the rate of transpiration
- 16-Decanting does not kill germs
 - Water obtained from decanting still contains germs
- 17-A freely suspended bar magnet rests in North-South direction
- 18-Planting trees
 - Avoid bush burning
 - Avoid deforestation
 - Re-afforestation
 - Agro-forestry

19-Gonorrhea

20-



- 21- Spore producing plants
- 22-To prevent themselves from being shocked by electricity / to prevent electric shock.

23-Irish potatoes are propagated by means of stem tubers while sweet potatoes are propagated by stem cuttings / vines

24-Semicircular canal

25-To breathe in oxygen / to look for more oxygen

26-To promote quick recovery by restoring oxygenated blood supply to the brain or

- To encourage oxygenated blood supply to the brain

27-To be split into hydrogen and oxygen to speed up the formation of starch

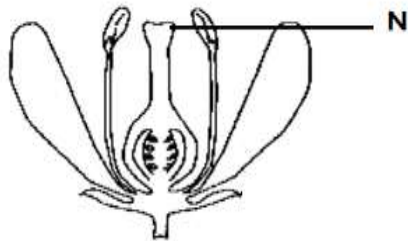
28-The liver regulates blood sugars / glucose

- The liver stores vitamins and mineral salt
- The liver acts as detoxicating agent
- The liver helps to produce energy as a result of chemical reaction.

29-Foster family.

30-Sepal

31-



32-All people should be treated equally.

- Punishing wrong doers and praise good behaved ones.
- Joining productive clubs in the society.
- Taking children through counseling and guidance lessons.

33-Pistil and stamen are at different plants

34-Keratin

35-The moon reflects its light from the sun.

36-Fresh water snails

37-Whales use blubber to keep themselves warm.

38-Due to differences in atmospheric pressure.

39-Head

40-By means of laying eggs.

Section B

41-Clinical thermometer.

(b) Mercury

(c) To draw mercury back to the bulb

(d) 37°C or 98.4°F

42-Heat expands matter, heat makes matter to evaporate

- Heat melts matter
- Heat makes matter hot or warm

(b) Heat transfer by conduction helps us to cook food

- heat transfer by conduction helps to iron clothes.

43-Landslides // earth quakes // volcanic eruption // bush fires // tsunami // hail stones

(b) deforestation // bush burning // over grazing // over cultivation // swamp drainage

44- a) B – conducting wire M – fuse

b) Chemical energy is changed to electric energy

c) chemical energy

45-Farm records are written information about activities carried out on a farm.

(b) Production records, operation records, feeding records

(c) They help a farmer to make decisions

- They help the farmer to work out profits and losses
- They help a farmer to plan for the farm
- They help the farmer to be taxed by the government fairly.
- They help the farmer to acquire loans from banks.

46-(a) Some plants climb others in order to get sunlight

- Big trees provide shade to small plants
- Plant leaves and grass are used to mulch gardens
- Plants like legumes fix nitrates into the soil.

(b) Some animals are source of food for other animals.

- Some animals provide security to others
- Some animals are kept as pets.
- Some animals help others in transport.

47-(a) Bananas – by means of suckers

(b) Pineapples – by means of suckers / crown / slip

(c) Carrots – by means of seeds.

(d) Bryophyllum – by means of leaves

48-They are all vertebrates / They all have back bones

(b) Both animals reproduce by laying eggs

(c) List T

(d) Tortoises, alligators, crocodiles

49-Plasma

(b) Digested food , hormones, water, blood proteins, mineral salts

(c) blood plasma transports carbondioxide from all parts of the body to the lungs.

- Blood plasma transports digested food to all parts of the body.

- Blood plasma transports hormones from the glands to where they are needed.

50-(a) seesaw

(b) Single fixed pulley

(c) $L \times L.A = E \times E.A$

$$60 \times 10 = x \times 50$$

$$600 = 50x$$

$$\frac{600}{50} = \frac{50x}{50}$$

$$12 = x$$

$$X = 4m$$

Therefore $x = 4m$ (2mks)

51-A locust undergoes incomplete life cycle while a bee undergoes complete lifecycle.

(b) Imago

(c)cocoon

52-(a) For respiration

(b) Aerobic respiration

- Anaerobic respiration

(c) In the living body cells

53-(a) Poor personal hygiene, poor feeding / nutrition

- Poor sanitation, drug abuse

- Poor lifestyles, some diseases are inherited

(b) Having proper sanitation

- Having good nutrition

- Having regular body exercises

- Practicing proper personal hygiene

54- (a) X – magenta

Y – yellow

Z – green

(b) violet

55-Q – suckers

(b) Through eating under cooked beef / pork

(c)It feeds parasitically

(d) For absorbing digested food / for reproduction