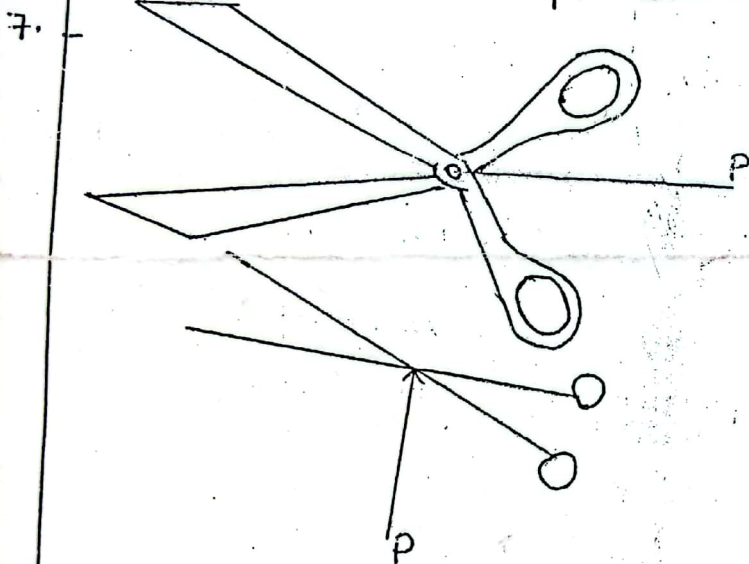


2015 H.F. SCIENCE MARKING GUIDE.

SECTION A. RESPONSES

(1)

1. - Natural / In-born immunity.
2. - Pulmonary artery.
3. - Biogas / Methane
4. - Temperature / Heat / Humidity / Wind / Surface area / Speed
5. - ^{of wind} Weight is measured in Newtons (Kgf) while mass is measured in Kilograms.
- Weight is measured in Newtons (Kgf) while mass is measured in grams.
6. - First class levers / 1st class levers.

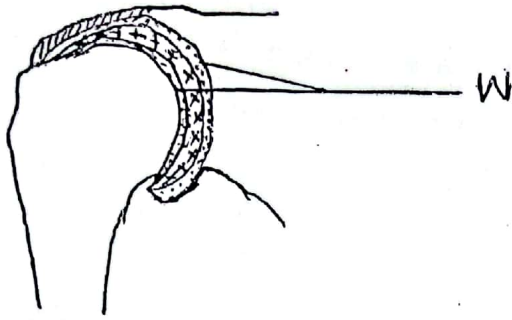


3. - Litter absorbs moisture from droppings / keeps the poultry house dry / provides warmth to the poultry house
- Litter reduces on the breakage of eggs.
- Strong scent / smell
- Presence of nectar / food
- It dries crops thus lowering yields
- It retards / slows plant growth leading to poor yields / withering / wilting

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11. - A tapeworm feeds on digested food while a hookworm feeds on blood. (2) ament
12. - It does not contain mineral salts.
13. - The skin
14. - A freely suspended magnet rests in the North-South / N-S direction.
15. - Avoid body contact with an infected person
- Avoid sharing clothes / towels / basins / sponges / combs / beddings.
- Early treatment / bathing regularly / Washing and ironing clothes.
16. - Reduce on the rate of transpiration / water loss from the plant /
17. - Vasectomy.
18. - The fish lacks dissolved oxygen from water which it uses for breathing.
- The muscular system of the mouth and operculum cannot work in air.
19. - Used in giving liquid medicine to the cows through the mouth.
- For deworming cattle / For drenching
20. - For proper growth of the foetus / Embryo
- Repair worn out body tissues of the mother
- Replace worn out body cells.
- Help to make antibodies that boost immunity of the baby and the mother.
- Provides energy to the mother

gement



- 23 - Contour ploughing
- 24 - Dental and Oral health | Personal hygiene | Food & Nutrition
- 25 - To speed up the rate of digestion
- To speed up the chemical reaction
- Help in the breakdown of food.
- Change food from one form to another.
- To act as catalyst
- 26 - Binocular | Telescope | Projectors | Spectacles | Kaleidoscope |
- The Eye | Magnifying glasses | Hand lens | Reading glasses
- 27 - Both reproduce by means of spores.
- 28 - To cool down/lower/reduce body temperatures | Lower
Body temperature | cool the body.
- 29 - Have long slender curved beaks
- Have long thin beaks.
- 30 - Fresh water snail | Water snail
(Reject: Snail alone).

31. - Excretory system.
32. - A VIP latrine has a screen which traps and kills flies while an ordinary one does not have a screen.
 - A VIP latrine has a vent pipe while an ordinary one does not have a vent pipe.
 - A VIP latrine has no lid while an ordinary one has a lid.
 - A VIP latrine has spiral walls while an ordinary one does not have spiral walls.
33. - Cassava
34. - To ease mating / making mating easy / Easy Service
35. - Electric kettle / Water heater / Hot plate / Cooker
 - Bulb / Lamp / Oven / Percolator / Hair drier / Soldering gun /
 Incubators / pop machine / Hand drier / Hair drier / Bread
 toaster / Lamp
36. - It is the shortest string
37. - It causes lung Cancer / Emphysema
 - Worsens Bronchitis / Tuberculosis / Asthma
 - It damages lungs.
38. - Plants are producers of food
 - Plants make / manufacture their own food.
 - Plants are sources of food to primary consumer
39. - Candidiasis / Thrush
 (Reject: Candida)
40. - To prevent tomato fruits from rotting
 - To improve yields / Good growth of the plant.
 - For easy weeding / pruning / spraying / harvesting.
 - To prevent rotting

Section B: Responses.

(5)

- 4) - Green / Compost / Farm Yard manure / Organic mulches
- b) Natural fertilizers are cheap compared to artificial fertilizers.
- Natural fertilizers stay longer in the soil compared to artificial fertilizers.
 - Natural fertilizers don't require skilled personnel to apply while artificial fertilizers need skilled personnel
 - Natural fertilizers improve on soil texture, structure and depth of soil while artificial fertilizers don't.
 - Natural fertilizers provide a variety of plant nutrients while artificial ones provide limited plant nutrients.
 - Natural fertilizers don't pollute the soil while artificial fertilizers kill the soil living organisms.
42. a) - Monocotyledonous plants / Monocots
- b) - Fibrous root system
- c) - Give / provide extra support / Hold the plant firmly.
- d) - W produces pollen grains while X receives pollen grains.
43. a) - When a woman is pregnant / giving birth and after giving birth / sick / when they are elderly.
- Lactating / breast feeding
- b) - Provide them with a balanced diet
- Help them with domestic work
 - Take them for medical care
 - Show them love
 - Provide them with proper clothing
 - Counsel and guide them.

a)- Starch | Glucose | Sugar | Carbohydrates.

b)- Water | Carbon dioxide | CO_2

(7)

c)- Traps sunlight

d)- There is no sunlight

48 a)- Firewood | Wood fuel | Wood

b)- Prevent | reduce heat loss

- Control oxygen supply to the bricks.

- Prevent heat loss by convection.

c)- Shows that the bricks have been burnt | fired

- Shows that heat has reached the top.

d)- Leads to deforestation | air pollution | soil degradation.

49 i)- Diaphragm

ii)- Aperture

iii)- Shutter

iv)- Film

50. a) - AIDS
- HIV/AIDS / HIV and AIDS
* (Insist on Capital letters)

b) - Milk

c) - At birth

- d) - Isolating the infected person from healthy ones
- Proper boiling / Sterilisation / Pasteurisation of milk.
 - Covering the mouth when coughing
 - Avoid sharing utensils with an infected person.
 - Avoid spitting sputum anywhere.
 - Avoid kissing
 - Early treatment / Through treatment / Sensitize masses.

51. a) - Cleaning wounds / Sterilizing some medical equipments / Used in thermometers / Used as a disinfectant
- Used in mixing of drugs e.g. syrups
 - Used as an antiseptic.

- b) - Damages vital body organs like brain / liver
- Increases the risk of heart diseases
 - Leads to severe cirrhosis / Loss of appetite
 - Leads to self neglect / poor judgement / decision making
 - Causes injury / death / accidents to an individual.
 - Loss of jobs / job neglect / Leads to poverty.

52. a) - Digested / Dissolved food | Heat / Antibodies /
Drugs / Hormones

b) - Red blood cells / Red Corpuscles / Erythrocytes

c) - HIV / Human Immunodeficiency Virus

8

53 a) - Rain gauge.

9

b) - To measure the amount of rainfall received in an area.

c) - To get the actual measurements
- To avoid obstruction of raindrops

d) - To prevent running water from entering
- Prevent the rain splash from entering.
- To get accurate measurements.

54 a) - Amphibians

b) - A toad uses the lungs for breathing while a toadpole uses gills.

c) - Protect eggs from predators/mechanical injury/
bacteria/fungi
- Keep the eggs floating on water
- Stop eggs from drying up.
- Keep/Hold eggs together.

55 a) - Tsetse flies / lice / mites / Liver fluke / stable flies /
Stomoxys / Tapeworms

b) - East Coast fever / Gall sickness / Anaplasmosis /
Heart water / Red water

c) - Spraying / dipping / dusting cattle with acaricides
- Creating tick buffers / practising double fencing
- Rotational grazing / Hand picking / Rye grease /

MODIFIED QUESTIONS (Special needs)

QNS. SECTION A RESPONSES.

10

- 6. - First class levers / 1st Class levers.
- 7. - The pivot / fulcrum is between the load and effort.
- 21. - Ligament
- 22. - Reduce friction / shock.
- 36. - Tightening / loosening the string / Adjusting the string /

SECTION B RESPONSES:

- 42. a) - Monocotyledonous plants
- b) - Fibrous root system.
- c) - Give extra support to the plant.
- d) - Parallel leaf venation
- 48. a) - Rubber / Plastic / Paper / Cloth / Wool / Porcelain
- b) - Conductors / Good conductors
- c) - Metals / Air / Water
- 53. a) - Rain gauge
- b) i) - Avoid obstruction of raindrops / get actual measurements.
- (ii) - Prevent running water / rain splash from entering.
 - To get accurate measurements.
- c) - Making food / For proper growth / Dissolves mineral salts for easy absorption by roots / For easy transportation of food nutrients / Helps in seed dispersal / Pollination.