

THYOLO DISTRICT SECONDARY SCHOOLS EXAMINATIONS

2026 JUNIOR CERTIFICATE MOCK EXAMINATION

BIOLOGY

MARK SCHEME

1. B	8. A	15. B
2. A	9. D	16. D
3. C	10. C	17. C
4. C	11. A	18. B
5. D	12. D	19. D
6. B	13. C	20. A
7. A	14. A	

Section B

21a. - Make the study of living things easy

Help to identify organisms correctly/easily

It shows similarities and differences in organisms

Shows relationships among organisms

Helps to avoid confusions in naming organisms any 2x1

b. Keep flames and flammable liquids separate

-Make sure the gas is not on when Bunsen burners are off any 1x1

c. -Rotate the nose piece 1/ to have the microscope under low power 1/

-Raise the body tube or lower the stage 1/ to prevent the lens from knocking the stage 1/

-Cover the microscope with its cover 1/ to prevent it from dust 1/

-Pick the microscope by its arm 1/ with the one hand supporting the base 1/



- Clean all lenses 1/ with the lens paper 1/
- Turn off the light 1/ when using light microscope 1/

22a. Avoiding overfeeding

- Avoid too much foods with simple sugars
- Doing physical exercises
- Feeding on diet with less starch
- Use drugs that reduce appetite any 2x1

b. – bow leggedness/ knock-knees in children because of soft or weak bones

- soft teeth that easily form cavities any 1x2

23a i. Guard cell 1/

- ii. -Allow gaseous exchange 1/
- Allow loss of water through transpiration 1/

b. – to reduce water loss through transpiration

24a. –Infections 1/

- b. –By wearing spectacles 1/ with concave lens 1/ to diverge the beam of light 1/ from distant object 1/

25 a. Part labelled D is Bicuspid valve (mitral valve) 1/

- b. -Blood vessel H contain less amount of oxygen (deoxygenated blood) 1/ while blood vessel A contain more oxygen (oxygenated blood) 1/
- c. Muscle E is much thicker to generate enough pressure 1/ to pump blood to all parts of the body. 1/

26a. Biceps 1/ and triceps 1/

- b. the biceps muscle contract 1/ while triceps relax 1/ this causes the muscle to pull

against the radius 1/ (causing movement of the arm)

27a. –There would be no emulsification of fats 1/ resulting to incomplete digestion of fats

1/

b. –It is a site for water absorption

-Active absorption of salts

-Temporary storage of undigested food (faeces) any 2x1

c. –Proper cooking of meat before eating

-Drinking boiled or treated water

-proper disposal of faeces by use of toilets or pit latrines

-Livestock must be given anti-worm drugs regularly

-Follow personal hygiene

-proper inspection of meat

-Vegetables and fruits should be washed thoroughly before eating any 2x1

28a. – How to overcome the fear of the needle 1/ to ensure that donors have minimal

discomfort when needle is inserted into the skin 1/

-Donors are advised to take a lot of fluids before donation 1/ to keep well hydrated 1/

-History of the donor's family 1/ whether members of the family have blood

disorders 1/

b (i). -4%

ii. Because water vapour is picked along the moist respiratory surfaces 2/

29a. –Fungi (fungus) 1/

b. It would not reproduce effectively 1/

c. Because no spores will be produced to grow into new organism 1/

30a. –Material support should be given

- Should be given moral support
- Build trust and confidence with the patient
- Treat the patient for opportunistic infections
- Provide proper diet
- The patient should have enough rest
- Counsel the patient
- Provide spiritual guidance
- Give legal support to cope up with reality any 1x1

b. –Lower mental performance

- Lack of brain coordination
- Impairs memory and damage brain
- Increases heart beat by 30 to 60%
- Increases the size of bronchioles
- Poor regulation of involuntary functions
- Makes false sense of wellbeing
- Introduce nicotine into blood any 2x1

c. Put one litre of boiled and coole water into a jug 1/

Add ten teaspoonfuls of sugar 1/

Add one teaspoonful of salt 1/

Stir the mixture till the salt and sugar dissolve. 1/

Section C

31. Transportation of carbon dioxide 1/ to the lungs to be removed 1/

Transportation of waste substances 1/ to excretory organs (to be removed) 1/



Transportation of hormones 1/ from glands to target organs 1/

Distribution of body heat 1/ (from organs like the liver) to all parts of the body 1/

Transportation of antibodies 1/ they are transported throughout the body 1/

Transportation of nutrients 1/ from the intestines to the liver/cells 1/

32. Drink safe water 1/ the water should be boiled or treated with chemicals 1/

Wash fruits and vegetables with clean running water before eating 1/ to remove the germs and dirt 1/

Washing hands after visiting the toilet 1/ to remove the germs 1/

Proper disposal of wastes 1/ by use toilets and latrines 1/

Avoid eating foods sold in open places 1/ to avoid contaminated foods 1/

Foods should be covered 1/ to avoid contamination 1/

Report cases of diarrhoeal diseases to health workers 1/ to enable government to control spread of the disease 1/

Vaccination 1/ during epidemics 1/

Civic education 1/ alert the community about an outbreak 1/

Exclusive breastfeeding 1/ for the first 6 weeks

33. Provide support to leaves 1/ exposing them to light for efficient photosynthesis 1/

For storage 1/ some stem store food in their cortex 1/

Transportation 1/ transport substances from roots to leaves/ from leaves to all parts of the plant 1/

Hold and support flowers 1/ exposing them to agents of pollination 1/

Holds and support fruits 1/ exposing them to agents of seed dispersal 1/

Some stems have thorns 1/ to protect the plant from grazing animals 1/