**MARANDA HIGH SCHOOL**



**Kenya Certificate of Secondary Education**

**MOCK EXAMINATIONS 2022**

**CODE:231/3 SUBJECT: BIOLOGY Paper 3**

 **AUG/SEPT 2022 – 13/4Hours**

MARKING SCHEME

1(a)(i) –edges of the carpels fuse together to form a central placenta;

 --ovary wall divides into multiple loculi/chambers;

 (ii)

|  |  |  |  |
| --- | --- | --- | --- |
| Food substance | procedure | observation | conclusion |
| Starch; | -To a little amount of juice K in a test tube add two drops of iodine solution; | -Brown color of iodine solution remains/persist; | Starch absent; |
| Vitamin C; | -To a little amount of DCPIP in a test tube, add juice K drop wise as you shake; | -DCPIP decolorizes; | Vitamin C present; |

(iii) –scurvy;

(iv)-bleeding gums;

 -poor healing of wounds

 -anaemia

 -swelling of skin

 -reduced resistance to infections

(b)(i)-liquid C forms a solid particles /liquid C curdles;

 (ii) body part-stomach

 Enzyme-rennin rej.renin

 (iii) gastric gland

2.(a)(i)-broken down into small droplets;

 (ii)-emulsification;

 (iii)-duodenum;

 (iv)-oxidized to release energy; -shock absobers on vital organs

 -storage form of food; -source of metabolic water

 (v)-artheriosclerosis; -thrombosis;

 (b) (i) Y-aquatic/fresh water

 Z- teresterial

 (ii) R-minimizes rate of water loss / defense against browsers;

 S-store air for buoyancy;

3.(a) (i)-nitrogen

 (ii)-thigmo tropism /haptonasty;

 (iii)-when the sensitive hairs on the leaves are touched (by the landing insect);the midrib loses turgidity rapidly; this makes the trap to spring inwards; hence closing the leaf; with the spines interlocking.

(b)(i)-axis;

 (ii)-cervical/neck;

 (iii)-odontoid process;

 (iv)-articulate with the atlas vertebra to permits nodding of the head;

(c)- tendon-attaches bone to muscles

 - ligament- attaches bone to bone

(d)-atlas vertebra