**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