ASUMBI GIRLS HIGH SCHOOL

PRE-MOCK

MAY-JUNE

2022

BIOLOGY PP3 MARKING SCHEME

1. (a) (i) - Edges of carpels fuse together to form a central placenta (2mks)

-Ovary wall divided into multiple loculi/chambers (accept between 4-10 chambers)

(ii) (8mks)

|  |  |  |  |
| --- | --- | --- | --- |
| Food substance | Procedure | Observation | conclusion |
| Starch | To a little amount of juice k in a test tube, add two drops of iodine solution | Brown colour of iodine solution remains | Starch absent |
| Vitamin C/ ascorbic acid) | To a little amount of DCPIP in a test tube, add juice **k** drop wise as you shake | DCPIP is decolorized | Vitamin C /ascorbic acid present |

(iii) Scurvy (1mk)

(iv) –bleeding of gums (4 max 2)

-poor healing of wounds

-Anaemia

-swelling of the skin

-reduced resistance to infections/ susceptibility to infections

2. (a) (i) Liquid C forms solid particles/liquid C curdles (1mk)

(ii)- part of the body –stomach (1mk)

-Enzyme – Rennin reject Renin (1mk)

(iii) Gastric glands (1mk)

(b) (i) Broken down into small droplets (1mk)

(ii) Emulsification (1mk)

(iii) Duodenum (1mk)

(iv) –oxidized to release energy (2mks)

- Storage form of food

- Source of metabolic water

- shock absorbers on vital body organs accept correct example

(iv) -Atherosclerosis reject arteriosclerosis (2mks)

-thrombosis

3. (A) (i) class - Pisces (1mk)

Reasons - presence of fins (4 max 2)

-body covered by scales

- presence of gills/ operculum

- presence of lateral line

(ii) M - gills (1mk)

N- auricle/atrium (1mk)

O- ventricle (1mk)

(iii) Type of closed circulatory system : Single circulatory system (1mk)

Reason : Blood flows to the heart once per complete circuit (1mk)

(iv) -scales facing backwards (1mk)

- absence of kneck (1mk)

(B)(i) Nitrogen (1mk)

(ii) Thigmonasty/haptonasty (1mk)

(iii) When the sensitive hairs on the leaf are touched (by the landing insect); the midrib cells losses turgidity rapidly; this makes the trap to spring inward; hence closing the leaf; with spines interlocking;

(5 max 4)