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231/3

BIOLOGY PAPER 3

MARKING SCHEME

Question 1

- A (a) No bubbles/effervescence;
 - (b) Bubbles/effervescence/foam observed
- B (a) Catalase enzyme denatured by high temperatures hence no reaction
 - (b) Catalase enzyme; broke down hydrogen peroxide into water and oxygen hence bubbles;
- C (i) Broken down into small droplets;
 - (ii) Emulsification;
 - (iii) Duodenum:
 - (iv) Increases the surface area for enzymes to speed up the rate of digestion;
- D (i) Liquid forms solid particles/liquid curdles;
 - (ii) Part of body stomach;

Enzyme –Renin;

- (iii) Gastric glands
- (iv) Gastrin hormone;

Question 2

- (A) Dicotyledonae;
- (B) Vascular bundles arranged around the cambium ring/has pith/has cambium ring;
- (C)
 - A- Epidermis

Protect inner tissues from mechanical injury/prevents excessive loss of water;

B- Vascular bundles;

Transport of water and mineral salts and manufactured food;

C- Pith

Stores food;

- (D)(i) Berry;
 - (ii) Many seeds
 - (iii) Basal placentation;

Placenta occurs at base of the ovary;

Question 3

- (a) Cervical/Neck region;
- (b) 3.01; 3.02; 3.03;
- (c) (i) Neural canal

Passage of the vertebral column

(ii) It vertebral canal;

Passage of vertebral artery;

(iii) Odontoid peg process;

Articulate into the neural canal of atlas allowing turning/rotation of the head;

- (d) Thoracic vertebrate;
 - (e) Broad and wing like to offer large surface area for attachment of neck muscles

