

**231/3 BIOLOGY**  
**PRE-MOCK 2026**  
**PAPER 3(Practical)**  
**MARKING SCHEME**

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

2.

- (a) Dead and decaying organic matter (1mk)
- (b) **R1**  
 Mode of nutrition.....autotrophic nutrition ..... (1mk)  
 Reason for mode of nutrition.....green in colour has chlorophyll pigments (1mk)
- S1**  
 Mode of nutrition.....saprophytic nutrition..... (1mk)  
 Reason for mode of nutrition .....lacks chlorophyll pigments..... (1mk)
- (c) **S2**.....seta; **T**.....gills (2mks)
- (d) Spores
- (e) Fungi get nutrients from dead organic matter therefore bring decomposition; source of food  
 (1mk)
- (f) **M**.....Sporophyte; **N**.....Gametophyte (2mks)

3. (a) convergent evolution

- (b) Different structures with different embryonic origins are modified to perform similar functions  
 (c) (i) analogous structures  
 (ii) Homologous structures
- d). divergent evolution/ adaptive radiation
- e).(i) **Q**.....Insecta; **R**.....Aves; **S**.....Mammalia  
 (ii) has pinnae; has fur covering body
- (f) (i) **B**.....flesh; **R**.....nectar from flowers  
 (ii) strong, curved and sharp; to rip flesh from bones.

