231/3 BIOLOGY (2018) 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** (1 mk)Reason for mode of nutrition.....green in colour has chlorophyll pigments (1 mk)**S1** (1mk)Reason for mode of nutritionlacks 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......Gametophyte; 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.