Marking Scheme

Paper 3 Biology Practical(Mock)

1 (a) (i) Clear/colorless/transparent;

(ii) white;

(b) volume increases;

(c) appearance: bubbles of gas/carbon dioxide; white plus particulate/sediment (Alternative

wording) rej. precipitate

smell: ethanol/of alcohol like/like beer;

(d) (i) red/yellow/orange; rej. Green

Protein present;

(ii) yeast has enzyme/sucrase; yeast enzyme catalyses sucrose to glucose;

(iii) glucose/sugar molecules small enough to move through/across membrane;

diffusion/dialysis; from high to low concentration;

(iv) enzyme(s) in yeast denatured; (acc. Yeast killed Rej. Enzyme killed) no reducing sugar

formed; respiration ceases; no carbon dioxide given off/produced; max 3mks

2. (a) A -------- Anax;

B -------- Aranea;

C --------- Pandalina;

D -------- Cancer;

E -------- Buthus;

F -------- Musca;

(b) (i) jointed legs/segmented body;

(ii) protection/grasping/holding; rej. Feeding

(c) (i) aquatic/marine/water;

(ii) gills;

(iii) cholera/typhoid/

3. (a) (i) Mitosis;

(ii) X… anaphase; Y.. metaphase; Z.. prophase;

(b) (i) Chloroplast;

(ii) site for photosynthesis; storage of starch;

(iii) leaf; stem;

(c) (i) O – Skeletal; P – Cardiac;

(ii) 1. Smooth muscles are not striated while skeletal muscles are striated.  
 2. Smooth muscles are an involuntary muscle while skeletal muscles are voluntary

muscles.  
 3. Smooth muscles are not under conscious control while skeletal muscles are under

conscious control.  
 4. Smooth muscles can be found within the walls of the internal organs like the [stomach](http://www.differencebetween.net/science/health/difference-between-abdomen-and-stomach/)

and the uterus while skeletal muscles are found in the biceps of the arm, the chest, and

other muscles that can be moved. Max 2mks

(iii) Heart;