GENERAL HUMAN BIOLOGY – YEAR 11

TASK 1 – MICROSCOPE SLIDES AND USES PRACTICAL

WEIGHTING: 10% Upward & Onward Marking Key NAME: DATE: MARK: _____ /38 = ____ % Part A: Identify the unknown samples using your knowledge of different tissue types 10 marks 1. Look at the slides under a microscope to determine which of the slides is: (3 marks) Red Blood cell, Liver Cell and cerebral cortex slide Identity Cerebral Liver Green Orange Black 2. Explain how you knew you had correctly identified each slide (3 marks) Red blood-no nucleus 3. Using the images below determine which is the healthy tissue and which is unhealthy (2 marks) . Identity:

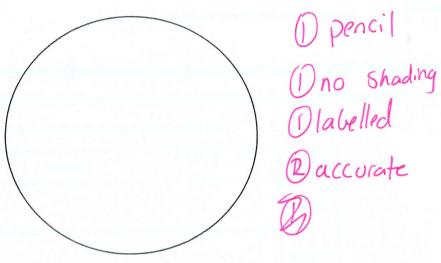
| H- | plum | 0 | cells | |
|----|------|---|-------|-----------|
| | - 60 | | | Shriveled |

Part B: Scientific Drawing

11 marks

5. For one of the slides from question 1 draw a scientific diagram in the circle below

(5 marks)



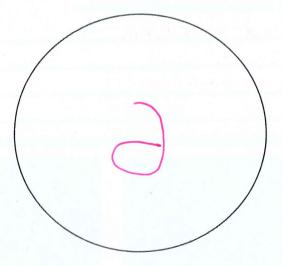
6. Before removing the slide show the teacher

1) Focos

magnisation (2 marks)

7. Collect a microscope slide with the letter 'e' on it. Place it on the stage and in the space below, draw what you can see when looking down the eyepiece on the lowest magnification

(1 mark)



8. Describe what has happened to the image? What do you think is inside the microscope that causes this? (3 marks)

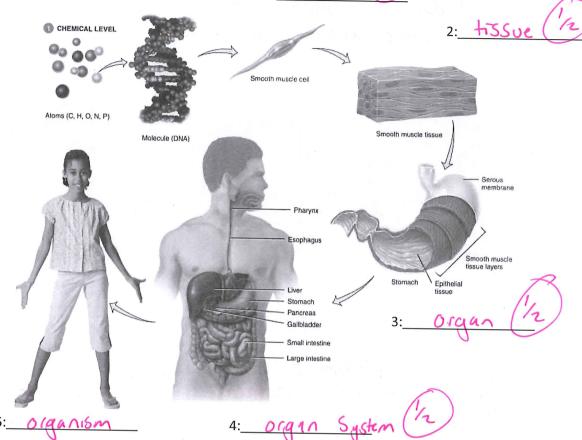
O upside down

D micro

9. Complete the diagram by stating the level shown at each number.

(2 marks)

1: Cell



10. Which level of the structural organisation is composed of two or more different types of tissues that have a specific function? (1 mark)

Organ

11. At which level does respiration occur? Explain your answer.

(2 marks)

cell

mitochordna is an organelle -Site of Resp

Part D: Characteristics of life

11 marks

12. Draw a diagram to represent a cell membrane

(6 marks)

9999 3300 (1) pencil

3 labels

-> head

-> tail

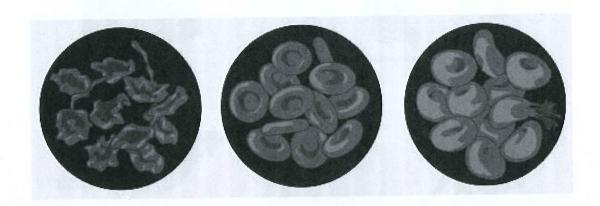
-> Channel

1) 2 layers

1) l extra

13. Using the Picture below, explain how osmosis works when cells are placed into a hypotonic solution

| Dhypo-low Salt 9 water | |
|---------------------------------|--|
| 1) water will more into cell | |
| 1) Balance between Salt + water | |



14. Nikki looked through a microscope and saw lots of black dots in a pancreatic cell but when she looked at a blood cell she only saw a few. Explain this statement in detail. (3 marks)

D Pancreas requires proteins D RBC doesn't need

D Blood cell carries oxygen rossomes