

Answers to examination questions in Chapter 1

1 Cell biology

- B
- D
- C
- C
- a Cells come from pre-existing cells; living organisms are composed of cells; cells are the smallest unit of life.

b Stem cells retain the ability to differentiate/are undifferentiated cells; stem cells may develop and create tissue cells with a specific function. Cancer cells may divide continuously; cancer cells divide to form cancer cells.
- a The ratio of volume to surface area of a cell increases as the cell size gets larger. The rate of exchanging materials across the cell membrane depends on the surface area of the cell and the rate at which materials are metabolized and waste produced depends on the volume of the cell; the rate of diffusion and exchange is proportional to cell surface area.

b It occurs because only some genes in the DNA of cells get activated/expressed; cells start functioning in a specialized fashion/tissues become differentiated; division of labour increases efficiency in tissue cells.
- a The diagram must show the following structures correctly drawn and labelled: a thick cell wall; the plasma membrane shown as a thin line; cytoplasm; pili/pilus must be attached to the cell wall only, not larger than a quarter of the cell; flagella/flagellum, end embedded in the cell wall, must be longer than the cell; nucleoid region/DNA; 70s ribosomes; plasmid shown as a circular ring smaller than the nucleoid region.

b Prokaryote cells have an approximate width of $0.5 \mu\text{m}$ / approximate length $2.0 \mu\text{m}$. Organelles such as mitochondria in an animal cell are similar in size, shape and method of dividing as prokaryotes.

c Binary fission is a type of asexual reproduction present in prokaryotes where the chromosome must replicate first and then the cell will elongate. After this a septum (beginning of formation of new cell wall) will separate the cell into two daughter cells.

Prokaryotes	Eukaryotes
Very small, about $1-5 \mu\text{m}$	Larger, typically $50-150 \mu\text{m}$
Few/no organelles present	Many organelles
Cell wall present	Cell wall may be present e.g. plants
Nuclear envelope absent; instead DNA is in the nucleoid region	DNA surrounded with a membrane with pores
Naked DNA; it is not associated with proteins	DNA associated with proteins (histones)
Circular DNA	Non-circular DNA
70S ribosomes	80S ribosomes
Plasmids present	No plasmid

- a Interphase is the preparation phase for mitosis where the cell needs to increase size and duplicate its DNA. It is divided into three stages: G_1 , S (synthesis), and G_2 . G_1 is the first growth phase where new organelles are formed and there is intense biochemical activity in the growing cell. The nucleus is actively involved in protein synthesis in the S phase where the chromosomes are copied (replicated). In G_2 , the second growth phase, there is further growth and preparation for mitosis.

b

 - During prophase chromosomes become visible/condense/supercoil. They continue shortening and thickening by supercoiling; the centromere appears as the section joining two chromatids in a single chromosome.
 - In anaphase chromatids are pulled away to opposite poles of the cell; the centromere divides/splits into two and chromosomes (made of a single chromatid) travel to opposite sides/poles of the cell.

c During mitosis the nucleus divides first. The chromosomes divide / chromatids separate and are distributed accurately to two daughter nuclei. The chromosomes condense during prophase, align during metaphase and the chromatids separate in anaphase. At the end of cytokinesis, the cytoplasm divides creating two independent cells / the cell wall is formed from the materials brought by vesicles from the Golgi apparatus. Each daughter cell contains an identical copy of the original parent DNA.
- Exocytosis involves export/secretion of substances such as hormones; endocytosis involves the active uptake of substances. Examples of endocytosis include phagocytosis and pinocytosis. During exocytosis the proteins are initially produced by the rough endoplasmic reticulum (RER). Proteins travel from the RER into

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