

Biology Answer Grade 12 (Main) Tutorial 1

Section A

1C	6D	11A	16D
2D	7C	12A	17C
3C	8A	13C	18B
4B	9D	14A	19D
5D	10B	15D	20C

Section B

1 a) A- Golgi Body

B- Nucleolus

C- Mitochondria

Functions

A- Processing and sorting out of substances such as enzymes from the ER; involved in the formation of lysosomes

B- Manufacture of ribosomes

C- Produce energy during aerobic respiration

b) Trachea; bronchi

c) traps dust particles

2a) cellulose cell wall

Mitochondrion

ER, nucleus, large central vacuole

b) More details more magnification and resolution

c) cell wall(peptidoglycan); capsule; mesosome; plasmid, circular DNA

d) A, E, J, D

e) Ribosome- site of protein synthesis, carried through rough ER. Vesicles from rough ER bud off from the ER- transport to Golgi, Modified and passed to cell wall by exocytosis from cell membrane- binding of vesicles into membrane

3a) More resolution

b) envelope of nucleus, ER, ribosomes

4a) Nicotine- cause blood clot formation in blood vessels

Tar-carcinogen

b) Iodine-Blue black precipitate

c) loss of water through the stomata into the atmosphere

d) temperature and humidity

5a) Blood transfusion, sexual intercourse with infected, sharing of needles

b) double circulation- blood passes twice in the heart in one complete circuit

c)i) F- vena cava, G- pulmonary artery, C- left ventricle

(ii) pumps blood over short distances from atrium to ventricles