Tutor: Dr. Faisal Rana

Edexcel IGCSE Biology (2017) 9-1

Topic 1.2

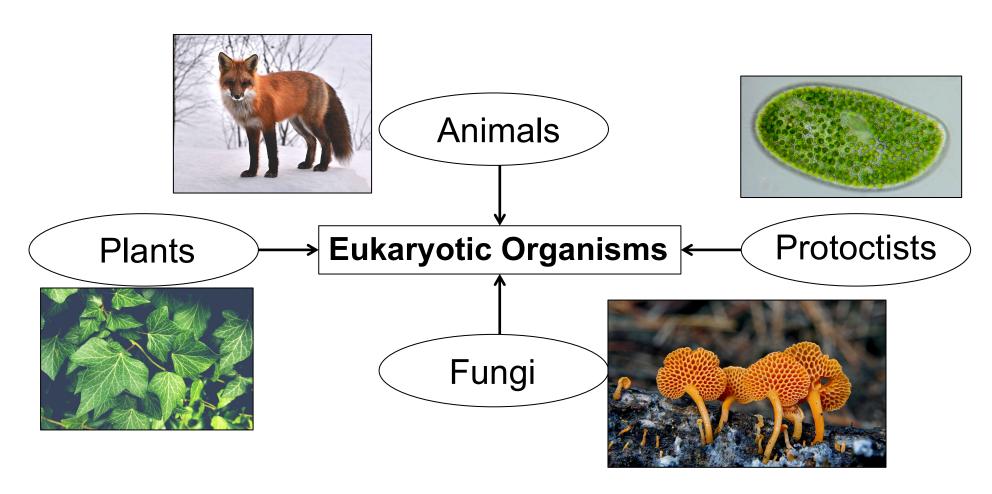
(b) Variety of living organisms

1.2 Describe the common features shown by eukaryotic organisms: Plants, animals, fungi & protoctists.

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Eukaryotic Organisms

Eukaryotic organisms contain cells with membrane-bound nucleus.



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1) Plants

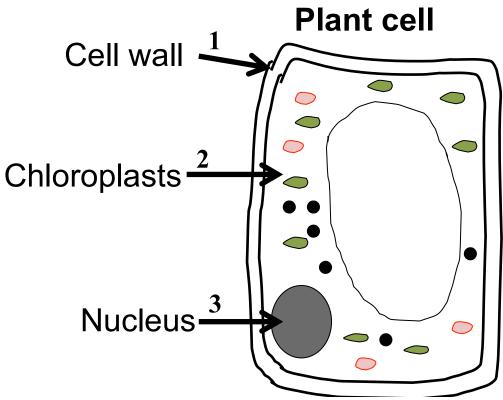
- Multicellular organisms.
- Cells contain chloroplasts for photosynthesis.
- Cells have cell walls made up of cellulose.
- They store carbohydrate starch.

EXAMPLES Flowering plants

- 1) **Cereals:** Maize
- 2) Herbaceous legumes (pea & bean plant).

Plants





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2) Animals

- Multicellular organisms.
- Animals can move, coordinated by nervous system.
- Their cells DO NOT contain chloroplasts & cell walls.
- The cells store carbohydrate glycogen.

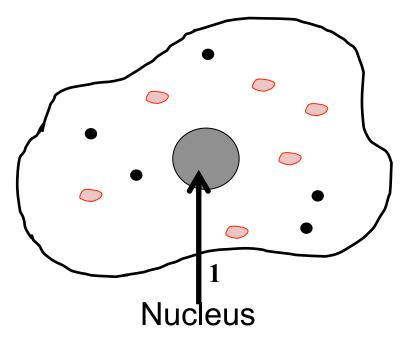
EXAMPLES

- 1) **Mammals**: Humans
- 2) Insects: Housefly & mosquito.

Animals



Animal cell



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Summary

PLANTS	ANIMALS
Multicellular	Multicellular
Cells contain chloroplasts	Cells do not chloroplasts
Contain cellulose cell walls	Do not contain cell walls
Carry out photosynthesis - food	Feed on animals and plants
Store carbohydrate starch	Store carbohydrate glycogen
Plants move (short)	Move from one place to other
No nervous coordination	Nervous coordination
Flowering plants 1) Cereals: Maize 2) Herbaceous legumes (pea & bean plant).	1) Mammals: Humans 2) Insects: Housefly & mosquito.

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