1 Bacteria, fungi and viruses have different structures.

The table lists some structures.

In each box, place a tick (✓) if the structure is present or a cross (✗) if the structure is absent.

One has been done for you.

(3)

Structure	Group		
	bacteria	**fungi**	**viruses**
cell wall			
nucleus			
chloroplast	✓		

(Total for Question 1 = 3 marks)

2 (a) The table shows features found in three groups of living organisms.

Complete the table using a tick (✓) to show that the group of living organisms shows the feature and a cross (✗) if the feature is absent.

(4)

Group	Feature			
	Cell wall	**Plasmid**	**Cytoplasm**	**Nucleus**
bacteria			✓	
fungi				✓
protoctists	✗	✗		

(b) Some bacteria, fungi and protoctists are pathogens.

(i) Name another type of pathogen.

(1)

.....

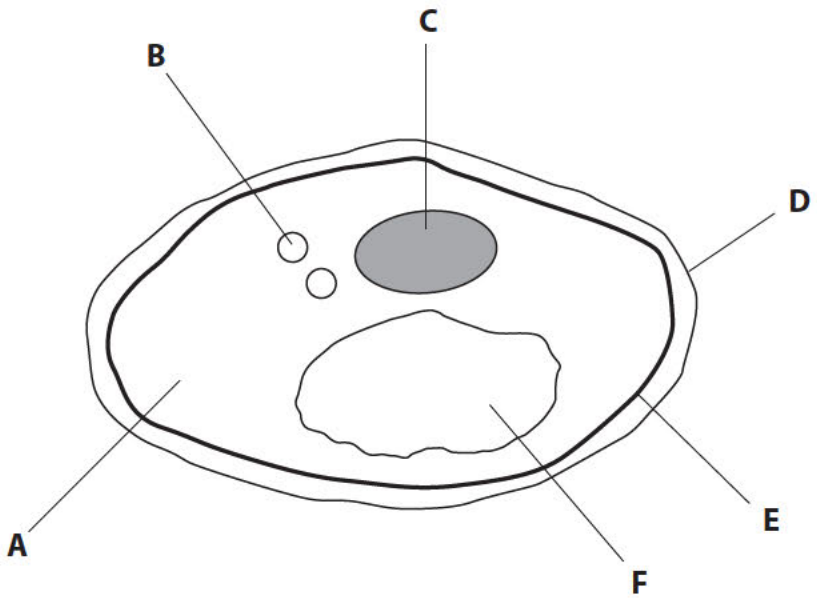
(ii) Give an example of a disease caused by a protoctist.

(1)

.....

(Total for Question = 6 marks)

3 Yeast is a single-celled fungus. The diagram shows a yeast cell with parts labelled A to F.



(a) The table lists functions of different parts of the yeast cell.

Complete the table by giving the letter of the part that carries out the function.

(2)

Function	Letter of part
controls the movement of molecules into the cell	
contains DNA that controls the cell	

(b) The table lists statements.

Put a tick (✓) in the boxes next to the statements that are correct for yeast.

(2)

Statement	Tick
can be used in the production of beer	
contains chloroplasts	
cell wall is made of chitin	
can only reproduce inside living cells	
contains plasmids	

(Total for Question = 4 marks)

4 Living organisms share some basic characteristics.

Draw a straight line from each characteristic to its correct description.

The first has been done for you.

(4)

Characteristic	**Description**
sensitivity	production of new organisms
respiration	respond to the surroundings
excretion	taking in of food
reproduction	increase in number of cells
growth	release of energy in cells
nutrition	removal of metabolic waste

(Total for Question = 4 marks)

5 (a) Complete the table to show the characteristic features of the three groups of organisms.

Use a tick (✓) if the group has the characteristic and a cross (×) if the group does not have the characteristic. The first box has been done for you.

(4)

Group	Can carry out photosynthesis	Have a cell wall	Can be pathogenic
bacteria	✓		
fungi			
viruses			

(b) The table below shows some characteristics shared by most animals.

Complete the table by giving the missing characteristics and examples.

(4)

Characteristic	Example
they require nutrition	eating food
they respire	releasing energy from carbohydrate
	some animals can fly
they control their internal conditions	
	increase of the population of foxes
they grow	

(c) Another characteristic shown by animals is the ability to respond to their surroundings. For example, a person may withdraw their hand from a hot object.

Describe the sequence of events that cause this response.

(5)

(Total for Question = 13 marks)