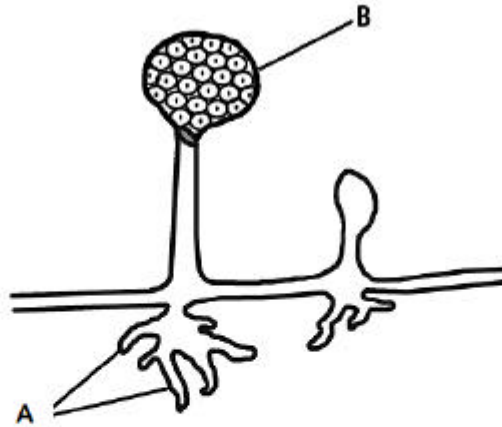


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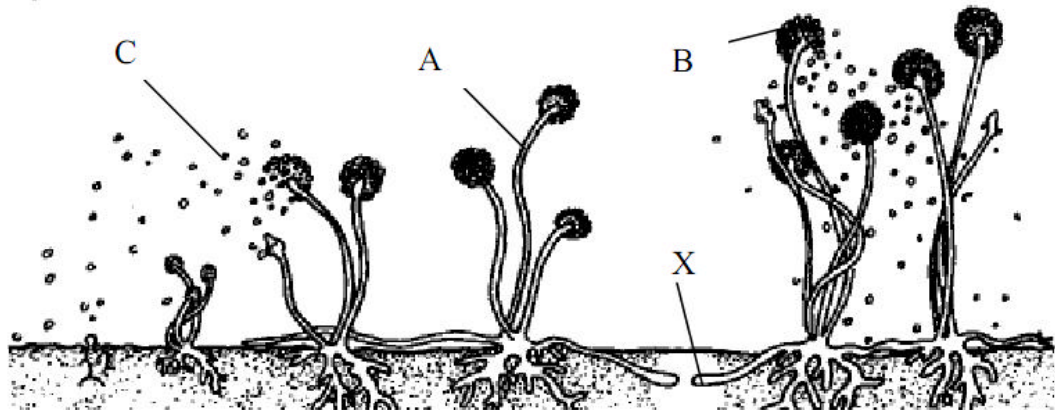
Q.1 The diagram below shows part of the mycelium of the fungus *Rhizopus*.



- (i) Give the name **and** state a function of the part labelled A.
- (ii) Name part B **and** explain why the reproduction associated with it is asexual.
- (iii) The nutrition of *Rhizopus* is described as being *saprophytic*.
  1. What does the term *saprophytic* mean?
  2. Explain the importance of saprophytic nutrition in the overall scheme of nature.
- (iv) Saprophytic nutrition is a form of *heterotrophic* nutrition. What does the term *heterotrophic* mean?
- (v) Name another form of nutrition employed by some fungi.
- (vi) Give **two** examples of harmful members of the kingdom Fungi.

(10x3)

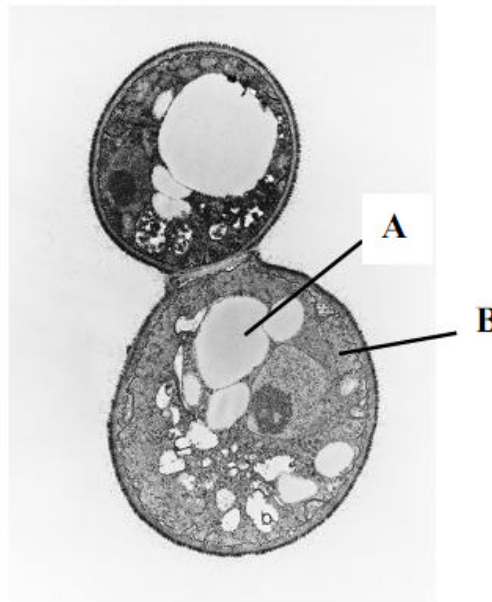
Q.2



- (i) Identify the organism shown in the diagram.
- (ii) To which kingdom does this organism belong?
- (iii) Name the parts labelled A, B and C.
- (iv) 1. Give a role, other than anchorage, for structure X.  
2. Describe how X carries out this role.
- (v) Which term describes the mode of nutrition of this organism.
- (vi) The cells of this organism are described as eukaryotic. Give **two** characteristic features of eukaryotic cells.
- (vii) What corresponding term is used to describe bacterial cells?

(11x3)

Q.3 The diagram shows a yeast cell, which is undergoing asexual reproduction.



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(a) Name A and B.

A ..... B .....

(b) What type of asexual reproduction is shown in the diagram? .....

(c) Which type of division, mitosis or meiosis, is involved in this form of reproduction? .....

(d) If yeast cells are kept under anaerobic conditions, alcohol (ethanol) and another substance are produced.

(i) What are anaerobic conditions? .....

(ii) Name the other substance produced. ....

(6x3)