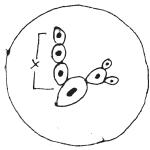
Experiment - 11

Binary fission (Amoeba)

Budding (Yeast)

Q. 1 The portion shown as (X) in the given diagram is

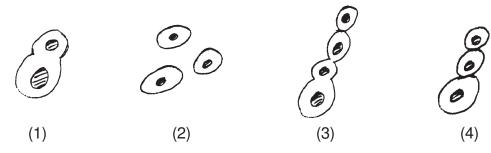


(a) single 3 celled bud

(b) chain of buds

(c) parent yeast cell

- (d) multi cellular yeast
- Q. 2 Shubhankar was given two permanent slides, one of binary fission in amoeba and the other of budding in yeast. He was asked to determine any one difference in the nucleus of the two. One such difference is
 - (a) presence of single nucleus each in amoeba, yeast cell and its attatched bud.
 - (b) presence of two distinct nuclei in amoeba.
 - (c) presence of two nuclei in a centrally constructed amoeba, one in yeast parent and one in its bud.
 - (d) presence of one nucleus in amoeba and two nuclei in yeast and one nucleus in its bud.
- Q. 3 Correct sequence of showing the process of budding in yeast is



(a) 1, 2, 3, 4

(b) 2, 1, 4, 3

(c) 4, 3, 2, 1

(d) 3, 4, 1, 2

Q. 4 Choose the one which does not show binary fission.







(b) Paramoesium



(c) Euglena

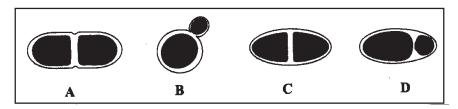


(d) Hydra

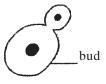
Q. 5 Label the diagram in the correct sequence.



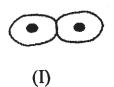
- (a) Cell membrane, nucleus, vacuole
- (b) Nucleus, cell membrane, vacuole
- (c) Vacuole, cell membrane, nucleus
- (d) Nucleus, vacuole, cell membrane
- Q. 6 Budding in yeast in illustrated by the diagram.
 - (i) A
- (ii) B
- (iii) C
- (iv) D



- Q. 7 Identify the mistake in the following sketch of budding in yeast.
 - (i) Bud is shown to be smaller than parent cell
 - (ii) Nuclei are present in both bud and parental cell
 - (iii) Both parent and bud are shown as single cells.
 - (iv) Bud is wrongly labelled.



Q. 8 Which one of the following diagram most appropriately illustrates binary fission in amoeba?



(i) I



(II)

(ii) II



(iii) III



(III)



(IV)

(iv) IV

Q. 9	Having seen the permanent slide of reproduction in amoeba and yeast under microscope. Rohit concluded that :-	
	(i) amoeba reproduces by binary fission and yeast by budding(ii) both reproduce by binary fission(iii) both reproduce by budding.	
	(iv) amoeba reproduces by budding a	and yeast by binary fission.
Q. 10	The shape of yeast cells as observed in permanent slide under microscope is:-	
	(i) Rectangular	(ii) Irregular
	(iii) Spherical / oval	(iv) Elongated

(577) *X-Science (E.M.)*