

MULTIPLE CHOICE QUESTIONS ON PRACTICAL SKILLS

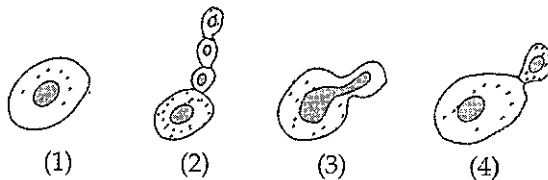
Select the correct option out of the four possible options given after the statement of the question :

1. Which of the following reproduce by binary fission ?
 (a) Yeast (b) *Amoeba* (c) Malarial parasite (d) *Hydra*.
2. Which of the following reproduce by budding ?
 (a) *Amoeba* (b) Yeast (c) *Hydra* (d) Both 'b' and 'c'.
3. In which of the following type of reproduction only one parent is involved ?
 (a) Budding (b) Vegetative propagation
 (c) Multiple fission (d) All the above.
4. Binary fission begins in *Amoeba* with :
 (a) Elongation of nucleus (b) Constriction of its cell membrane
 (c) Budding (d) Both 'a' and 'b'.
5. Which of the following process does not take place in asexual reproduction ?
 (a) Budding (b) Binary fission
 (c) Regeneration (d) Fusion of gametes.
6. Following diagrams depict various stages of binary fission in *Amoeba*.



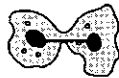
The correct sequence is

- (a) 1, 2, 3, 4 (b) 4, 3, 1, 2 (c) 4, 3, 2, 1 (d) 3, 2, 1, 4
7. In which of the following binary fission does not occur ?
 (a) *Paramecium* (b) *Amoeba* (c) *Hydra* (d) *Euglena*
8. In which type of reproduction the newly formed are genetically identical to parent ?
 (a) Budding (b) Binary fission
 (c) Spore formation (d) All the above.
9. Which of the following process takes place during sexual reproduction ?
 (a) Fusion of gametes (b) Meiosis
 (c) Fertilization (d) All the above.
10. Binary fission in *Amoeba* starts with the
 (a) Two *Amoebae* come closer (b) *Amoeba* stops feeding
 (c) Elongation of nucleus (d) Constriction of cell membrane.
11. Following diagrams depict the stages of budding in yeast. The correct sequence is



- (a) 1, 2, 3, 4 (b) 1, 3, 4, 2 (c) 1, 4, 2, 3 (d) 3, 2, 1, 4

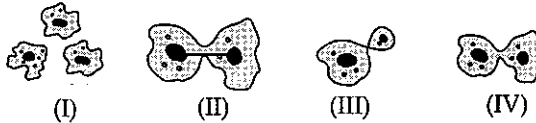
12. The diagram given below illustrates :



- (a) bud formation in yeast
 (b) binary fission in *amoeba*
 (c) formation of daughter cells in yeast
 (d) pseudopodia formation in *amoeba*

[Delhi 2007]

13. Out of four slides I, II, III, IV whose details are shown below, which one should be focussed under the microscope for showing budding in yeast ?



- (a) I
 (b) II
 (c) III
 (d) IV [Delhi 2007]

14. Given below are the stages of Binary fission in *amoeba*. Which one out of the following would you select as the correct sequence of these stages ?



- (a) A, B, C, D
 (b) D, C, A, B
 (c) B, D, A, C
 (d) C, A, D, B [A.I. 2007]

15. Which one out of the following sets of diagrams correctly depicts reproduction in *amoeba* and yeast ? [A.I. 2007]

<p>(a)</p> <p>Budding in amoeba</p>	<p>Binary fission in yeast</p>
<p>(b)</p> <p>Binary fission in amoeba</p>	<p>Budding in yeast</p>
<p>(c)</p> <p>Binary fission in amoeba</p>	<p>Budding in yeast</p>
<p>(d)</p> <p>Budding in amoeba</p>	<p>Binary fission in yeast</p>

16. The given slides 'A' and 'B' were identified by four students I, II, III, IV as stated below :



Slide 'A'

- (I) Binary fission in *Amoeba*
- (II) Budding in Yeast
- (III) Binary fission in *Amoeba*
- (IV) Budding in Yeast

Slide 'B'

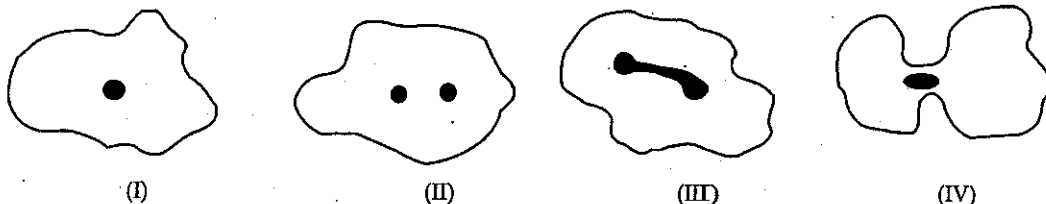
- Daughter cells of *Amoeba*
- Buds of Yeast
- Buds of Yeast
- Daughter cells in *Amoeba*

Of the above mentioned identification of slides A and B, which one is correct ?

- (a) I
- (b) II
- (c) III
- (d) IV

[Delhi 2008]

17. The correct diagram showing an *amoeba* undergoing binary fission is :



- (a) I
- (b) II
- (c) III
- (d) IV

[A.I. 2008]

18. Which type of reproduction occurs in yeast ?

- (a) Sexual
- (b) Asexual
- (c) Vegetative
- (d) All the above.

19. In which of the following conditions reproduction occurs in yeast ?

- (a) Suitable water and food.
- (b) Suitable food and temperature.
- (c) Excess of water and air.
- (d) Suitable air and temperature.

20. Yeast is the member of

- (a) Saprophyte
- (b) Parasite
- (c) Hydrophytes
- (d) Hygrophytes

21. Yeast belongs to

- (a) algae
- (b) fungi
- (c) gymnosperm
- (d) angiosperm

22. The colour of yeast is :

- (a) black
- (b) brown
- (c) white
- (d) variegated

23. During reproduction in yeast cell division found is

- (a) amitosis
- (b) mitosis
- (c) meiosis
- (d) All the above.

24. Which type of asexual reproduction is found in yeast ?

- (a) Cutting
- (b) Budding
- (c) Grafting
- (d) Layering

25. Which condition is suitable in *amoeba* for binary fission ?

- (a) Available plenty of food.
- (b) Favourable conditions are available.
- (c) When the nucleus becomes dumb-bell shaped.
- (d) All the above.

26. Which one does not show binary fission ?

- (a) *Amoeba*
- (b) *Paramecium*
- (c) *Hydra*
- (d) *Euglena*.

27. In binary fission of *Amoeba*

- (a) two daughter *amoebae* are formed by single *amoeba*.
- (b) one daughter *amoeba* is formed by single *amoeba*.
- (c) many daughter *amoebae* are formed by single *amoeba*.
- (d) indefinite daughter *amoebae* are formed by single *amoeba*.

28. In binary fission the first step is :

- (a) nuclear division
- (b) cytoplasmic division
- (c) cell membrane division
- (d) cell wall division.

29. In which shape does the yeast find ?

- (a) In oval shape.
- (b) In spherical shape.
- (c) In rectangular shape.
- (d) In irregular shape.

30. Binary and budding are the types of

- (a) sexual reproduction
- (b) asexual reproduction
- (c) vegetative reproduction
- (d) fragmentation

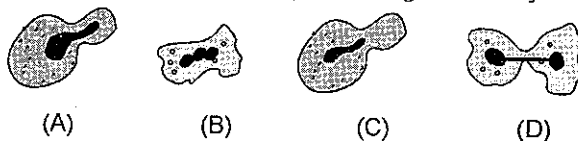
31. In budding, a cell of yeast divided into how many daughter cells ?

- (a) One
- (b) Two
- (c) Three
- (d) Chain of buds

32. In yeast cell the budding process is

- (a) reproduction
- (b) repetition
- (c) respiration
- (d) growth

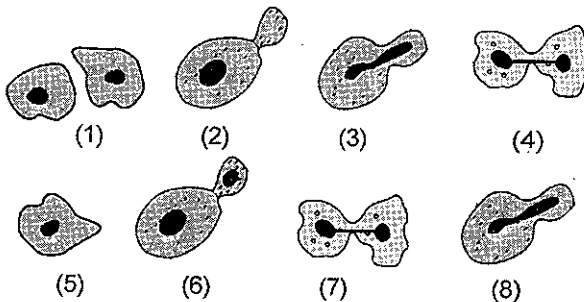
33. Out of the following diagrams which one depicts a stage in binary fission of *amoeba* :



- (a) A
- (b) B
- (c) C
- (d) D

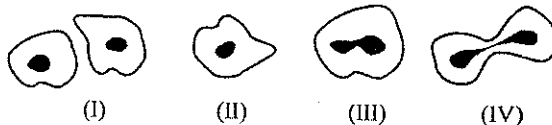
[CBSE Sample Paper Question]

34. From the following diagrams, select the correct ones showing stages of binary fission in *amoeba* and budding in yeast in their proper sequence.



- (a) 5, 1, 4, and 2, 3, 6
- (b) 3, 4, 7 and 2, 8, 6
- (c) 7, 4, 1 and 3, 8, 6
- (d) 8, 7, 4 and 3, 2, 6 [CBSE Sample Paper Question]

35. The following figures illustrate binary fission in *Amoeba* in an incorrect sequence.



The correct sequence is :

(a) I, III, IV, II

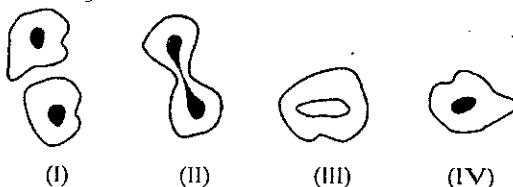
(b) II, III, IV, I

(c) IV, III, II, I

(d) III, IV, II, I

[CBSE Sample Paper Question]

36. Four stages of binary fission in *amoeba* are shown below. The stage at which the nuclear fission and cytokinesis are observed is stage :



(a) I

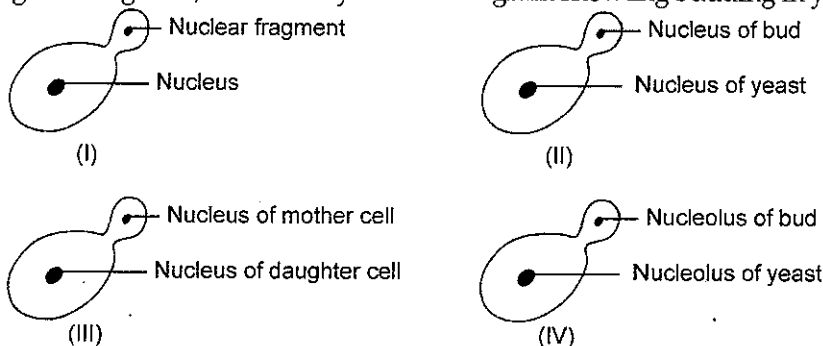
(b) II

(c) III

(d) IV

[Delhi 2009]

37. Out of the given diagrams, the correctly labelled diagram showing budding in yeast is :



(a) I

(b) II

(c) III

(d) IV

[A.I. 2009]

ANSWERS AND EXPLANATIONS

1. (b) *Amoeba*
2. (d) Both Yeast and *Hydra*.
3. (d) Only one parent is involved in budding, vegetative propagation, multiple fission.
4. (a) Elongation of nucleus.
5. (d) Fusion of gametes is not in asexual reproduction.
6. (d) Self explanatory.
7. (c) *Hydra*
8. (d) Budding, binary fission, spore formation.
9. (d) Meiosis, fertilization, fusion of gametes.
10. (c) Elongation of nucleus.
11. (b) 1, 3, 4, 2
12. (b) Binary fission in *Amoeba*.
13. (c) Self explanatory
14. (c) Self explanatory
15. (b) Self explanatory
16. (a) Binary fission in *Amoeba*
17. (c) Self explanatory

18. (b) Asexual reproduction
19. (b) Suitable food and temperature.
20. (a) Saprophyte.
21. (b) Fungi
22. (c) White
23. (a) Amitosis
24. (b) Budding
25. (d) All conditions given in the options.
26. (c) *Hydra*
27. (a) Two daughter *amoebae* are formed from single *amoeba*.
28. (a) Nuclear division.

MULTIPLE CHOICE QUESTIONS ON PRACTICAL SKILLS

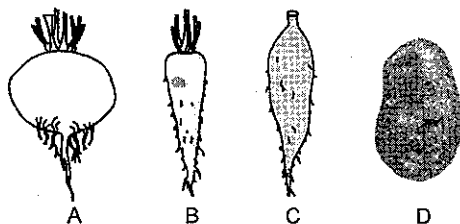
Select the correct option out of the four possible options given after the statement of the question :

1. Which group out of the following represents homologous organs ?
(a) Potato, ginger, sweet potato (b) Turnip, raddish, carrot

(c) Carrot, sweet potato, potato

(d) Ginger, potato, carrot

2. Which statement with regard to figure A, B, C, D is correct?



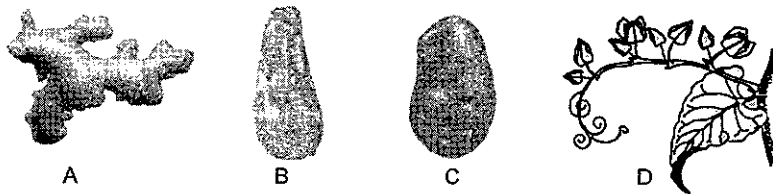
(a) A, B, D are homologous organs

(b) B, D, C are homologous organs

(c) A, B, C are homologous organs

(d) B, C, D are homologous organs

3. In figure A, B, C, D some modification are shown out of these which are homologous organs?



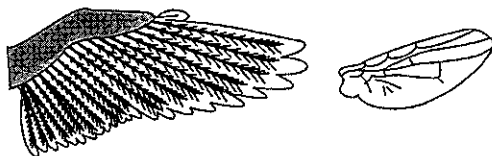
(a) A and B

(b) A, B and D

(c) A, B and C

(d) A, B, C and D

4. In the following diagram wings of bird and insect are shown which are analogous. The reason for it is



(a) Both perform same function.

(b) Both perform different function.

(c) They have same origin and function.

(d) They have different origin and different function.

5. Correct definition of homologous organs is

(a) different functions, same origin.

(b) same function, different origin.

(c) same function or different function, but similar origin.

(d) same function or different function but different origin.

ANSWERS AND EXPLANATIONS

1. (b) All are modification of root.

2. (c) All are modification of root. D is stem modification.

3. (d) All are modification of stem.

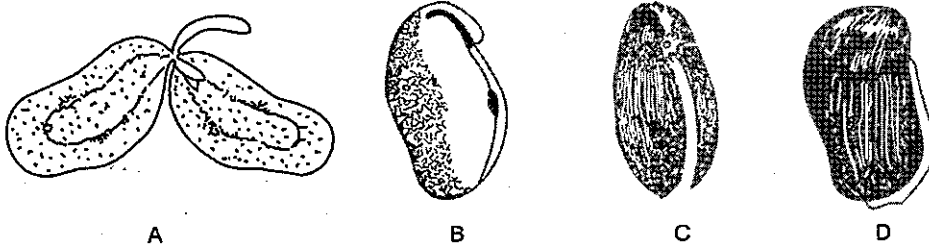
4. (a) Self explanatory.

5. (c) Self explanatory.

MULTIPLE CHOICE QUESTIONS ON PRACTICAL SKILLS

Select the correct option out of the four possible options given after the statement of the question :

- Function of cotyledons is to
 - Provide food to embryo
 - Helps in soaking water
 - Provide protection to embryo
 - Both (a) and (c)
- The correct sequence showing germination in bean seed is



- D, B, C, A*
- D, A, B, C*
- C, A, B, D*
- D, C, B, A*

- Correct label of A and B part in the given diagram is

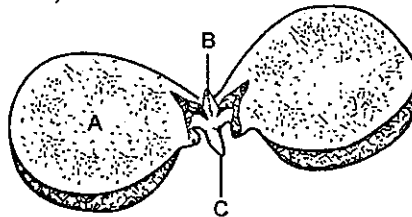
- A – leaf B – shoot
- A – root B – shoot
- A – shoot B – root
- A and B both are parts of shoot



- A student while performing experiment to observe embryo of dicot seed saw that the seed kept submerged in a beaker full of water and kept in light failed to germinate the possible reason for it can be

- seeds did not get oxygen
- the seeds were kept in light
- the seeds were not viable
- Both (a) and (c)

- The correct labelling for part A, B and C is



- A – cotyledon B – radicle C – plumule
- A – leaf B – shoot C – root
- A – leaf B – embryo C – cotyledon
- A – cotyledon B – plumule C – radicle

ANSWERS AND EXPLANATIONS

- (d) Cotyledon provides food as well as protection to embryo.
- (d) Self explanatory.
- (c) A is plumule which gives rise to shoot, B is radicle which gives rise to root.
- (d) Seeds fail to germinate when they do not get oxygen or they are not viable.
- (d) Self explanatory.