



# BIOLOGY

## NEET & AIIMS

### Mock test 26

#### Example

1. How many among the following can have lifespan of more than 100 years Tortoise,

Crocodile, Elephant, Horse, Peepal tree, Parrot,

Crow, Banyan tree

A. 2

B. 3

C. 4

D. 5

**Answer: C**



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## 2. Select the incorrect statement

A. Life span are not necessarily correlated with size or complexity of organisms.

B. Some multicellular organisms are immortal.

C. Life span is specific trait of each organism

D. Life span of mango tree is much shorter than that of peepal tree

**Answer: B**



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**3.** Read the following statements w.r.t clone. and identify the correct statements. a . Individuals are exact copies of each other and their parents b. Involves mitotic as well as meiotic division. c. Group of morphologically and genetically similar individuals. d. Individual member of clone is referred as "ramet."

A. a, b, c & d

B. a & c only

C. a, b & d

D. a, c & d

**Answer: D**



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**4. Select the odd one w.r.t natural methods of reproduction.**

- A. Rhizome in Banana
- B. Offset in water hyacinth
- C. Root cuttings in Blackberry
- D. Aerial shoots in Opuntia

**Answer: C**



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**5. Select the incorrect statement w.r.t asexual reproduction**

A. It can occur with or without gamete fusion

B. It can occur through unspecialised or specialised parts of the parent.

C. Simple and quick method of reproduction

D. Common mode of reproduction in lower organisms

**Answer: A**



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**6. Read the following statements:**

Statement 1: Zoospores are microscopic motile spores formed inside sporangia.

Statement 2: Conidia are non flagellated motile spores formed over conidiophore.

- A. Both statements 1 & 2 are correct
- B. Only statement 1 is correct
- C. Only statement 2 is correct
- D. Both statements 1 & 2 are incorrect



**Answer: B**



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7. Which of the following statement is correct w.r.t runner in grasses.

A. Short horizontal branch producing cluster of leaves above and cluster of roots below.

B. Lateral branch creeps below the soil surface and grows obliquely upward.

C. Elongated, prostrate, subaerial branch with short internodes

D. Elongated, prostrate, subaerial branch with long internodes and have adventitious roots at nodes.

**Answer: D**



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8. Vegetative propagation in Pistia is a

A. Underground stem

B. Subaerial stem

C. Underground root

D. Aerial stem

**Answer: B**



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9. Select the incorrect statement w.r.t.

Eichhornia

- A. Its propagation takes place by breaking of offsets.
- B. It was introduced in Bengal because of its beautiful flowers and stems
- C. It grows in stagnant water
- D. Highly invasive aquatic weed referred as "Terror of Bengal"

**Answer: B**



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**10.** Which of the following type of vegetative reproduction is found in century plant?

A. Bulbils

B. Runner

C. Sucker

D. Rhizome

**Answer: A**



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**11.** Select the odd one out w.r.t. adventitious bud?

- A. Foliar bud
- B. Cauline bud
- C. Extra axillary bud
- D. Radical bud

**Answer: C**



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**12.** Adventitious buds in roots and leaves help in vegetative reproduction of \_\_\_\_\_ and \_\_\_\_\_ plants respectively

- A. Adiantum and Kalanchoe
- B. Begonia and century plant
- C. Dahlia and walking fern
- D. Dahlia and Ananas

**Answer: C**



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**13. \_\_\_\_\_** is the pre-requisite for successful cuttings?

- A. Induction of shoots
- B. Induction of leaves
- C. Induction of roots
- D. Both (1) & (2) are correct



**Answer: C**



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**14.** Mark the incorrect statement w.r.t. layering.

A. It is carried out on one year old basal shoot branches commonly during summer or autumn season

B. In trench layering, basal branch is pegged in a horizontal position which

develops into a number of vertical shoots

C. Tip layering is artificial method of vegetative reproduction in blackberry

D. In air layering, grafting clay is made of one part cow dung, one part finely cut hay or moss and two parts clay

**Answer: A**



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15. Select the correct statement in context of sexual reproduction.

A. Slow and elaborate process

B. It can be both uniparental as well as biparental

C. Involves syngamy

D. More than one option is correct

**Answer: D**



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**16.** Method of raising new plants from a small plant tissue with the help of tissue culture technique is referred as

- A. Layering
- B. Grafting
- C. Micropropagation
- D. Gootee

**Answer: C**



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**17.** Read the following statements: Statement-1: Shoe flower is a polycarpic perennial plant which bears flowers throughout the year. Statement-2: Interflowering period is recovery phase in monocarpic plants. Select the correct option.

- A. Both statements 1 & 2 are correct
- B. Both statements 1 & 2 are incorrect
- C. Only statement 2 is correct
- D. Only statement 1 is correct

**Answer: D**



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**18.** Read the following statements: a. Interaction between hormones and environmental factors regulates the reproductive process. b. *Strobilanthus kunthiana* is a polycarpic plant. c. Gamete is a sex cell that contains haploid set of chromosomes. d. Jackfruit is a monocarpic

plant. e. Term *gamete* was given by Gregor Johann Mendel. Select the correct option:

A. b, c, d & e

B. a, c, & d

C. a, c, d & e

D. a, c & e

**Answer: D**



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19. In a plant *Mangifera indica*, gamete is transferred through

A. Water

B. Pollen

C. Chemicals

D. Both 1 & 2

**Answer: B**



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20. Select correct option w.r.t. heterogametes of algae. Cladophora, Chlamydomonas, Fucus, Ulothrix, Volvox, Chara, Spirogyra

A. 5

B. 6

C. 2

D. 3

**Answer: D**



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21. Which one is mismatched? Organisms Life span

A. Elephant 90 years

B. Crocodile 60 years

C. Crow 120 years

D. Parrot 140 years

**Answer: C**



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22. The chromosome number in meiocyte of an adder's tongue fern is

A. 380

B. 630

C. 660

D. 1260

**Answer: D**



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23. Male and female sex organ of Chara are respectively called as

A. Globule and nucule

B. Nucule and globule

C. Archegoniophore and antheridiophore

D. Oogonium and antheridium

**Answer: A**



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24. How many terms in the column is associated to stonewort? Protandrous, Gynandrous, Shield cells, Coronary cells, Tube cells, Archegoniophore, Globule, Monoecious

A. 5

B. 6

C. 7

D. 4

**Answer: B**



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25. Which one of the following is the first cell of the new generation in all sexually reproducing organisms?

A. Embryo

B. Zygote

C. Gamete

D. Spore

**Answer: B**





**26.** Select odd statement w.r.t asexual reproduction.

A. It does not involve fusion of gametes

B. It is a slower method of multiplication

C. New individuals are generally similar to the parents

D. It does not introduce variability

**Answer: B**



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27. Zoospores are

- A. Always exosporous
- B. Motile or nonmotile
- C. Usually naked
- D. More than one options are correct

**Answer: C**



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**28.** Select the incorrect statement:

A. Flowers are morphological and embryological marvels and sites of sexual reproduction.

B. Several hormonal and structural changes take place prior to development of floral primordium

C. The distal end of the filament is attached to the thalamus or the petel of the

flower.

D. Flowers are objects of aesthetic, ornamental, social, religious and cultural value

**Answer: C**



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**29.** Out of the 4 whorls of flower, which of the following are sterile? (a) androecium (b) gynoecium (c) calyx (d) corolla

A. (a) & (b)

B. (b) only

C. Only (c)

D. (c) & (d)

**Answer: D**



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**30.** Which layer in *Arceuthobium* has fibrous thickening and it is called?

A. Exothecium

B. Endothecium

C. Middle layer

D. Tapetum

**Answer: A**



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**31.** Select the correct statement w.r.t anther. (a)

Anther lobes are attached to each other by a

band of vasculated sterile tissue. (b) Fibrous

bands are present in Hydrocharitaceae. (C) Microsporangia on maturity get filled with pollen grains (d) Homogeneous mass of meristematic cells in microsporangium form microspore mother cells. (e) Cells of middle layers nourishes the developing pollen grains

A. a, b, c, d

B. a, c, d

C. a, c, d, e

D. b, d, e

**Answer: B**



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**32.** Select the incorrect statement w.r.t tapetum. (a) Cells of tapetum are polyploid. (b) Amoeboid tapetum provides orbiculate bodies which helps in ornamentation of exine. (c) Tapetal cells show increase in their DNA content. (d) Innermost layer of another surrounds the sporogenous tissue. (e) Glandular tapetum secretes sporopollenin, pollenkit and compatibility proteins

A. (b) & (e)

B. (b), (d), (e)

C. (a), (c), (e)

D. Only (b)

**Answer: D**



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**33.** In cells of endothecium,  $\alpha$ -cellulosic fibrous bands arise from

A. Outer radial wall

B. Inner tangential wall

C. Outer tangential wall

D. Both on inner and outer tangential walls

**Answer: B**



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**34.** Which of the following layer helps in dehiscence of anther due to its hygroscopic nature?



A. Exothecium

B. Epidermis

C. Endothecium

D. Middle layers

**Answer: C**



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**35.** Which of the following cytokinesis after meiosis in PMCs is considered as advanced type?

A. Simultaneous type in monocots

B. Successive type in monocots

C. Successive type in dicots

D. Simultaneous type in dicots

**Answer: B**



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**36.** Select the correct statements w.r.t pollen grain (a) Its sporoderm consists of exine and intine (b) Has exine which helps in fossilization

(c) Generally spherical shaped with about 25-50  $\mu\text{m}$  in diameter (d) It can be stored in liquid  $\text{N}_2$  for years (e) Its viability does not depend on temperature and humidity.

A. a, b, d, e

B. b, c, d, e

C. a, b, c, d

D. b, c, a, e

**Answer: C**



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**37.** Intine is composed of

- A. Chitin and pectin
- B. Cellulose and pectin
- C. Cellulose and hemicellulose
- D. Lignin and pectin

**Answer: B**



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**38.** Which of the following is not a semelparous organism?

A. Pacific salmon

B. Lamprey

C. Spider

D. Cow

**Answer: D**



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**39.** In Vorticella during binary fission plane of division passes along

- A. Any plane of organism
- B. Transverse axis of organism
- C. Longitudinal axis of body
- D. At an angle to transverse axis of body

**Answer: C**



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40. Which of the following cannot be considered as function of sexual reproduction?

A. Introduces variation

B. Avoids ageing

C. Replaces organisms lost due to predation

D. Helps in continuation of species

**Answer: B**





41. Which of the following statements is incorrect?

- A. Formation of gametes may or may not occur in somatogenic reproduction
- B. Proter and opisthe are results of binary fission in Paramecium
- C. Sexual reproduction is always biparental



D. Monocystis exhibits sporulation in favourable condition

**Answer: C**



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**42.** Maximum life span is a characteristic of \_\_\_A\_\_\_ and life expectancy is characteristic of \_\_\_B\_\_\_

A. A. Individual B. Population

B. A. Population B.Species

C. A.Species B.Population

D. A.Species B.Individual

**Answer: C**



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**43.** During unfavourable conditions A moeba exhibits

A. Binary fission

B. Encystation

C. Sporulation

D. Both (2) and (3)

**Answer: B**



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**44.** Among the following organisms which one has the shortest life span?

A. Elephant

B. Giant Tortoise

C. Swan

D. Parrot

**Answer: A**



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**45.** Which of the following organisms do(es).

Not exhibit internal budding? (a) Yeast (b)

Sycon (c) Spongilla (d) Hydra

A. b & d

B. a & d

C. b & c

D. Only d

**Answer: B**



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**46.** Which of the following is a incorrect match between organism and its mode of

reproduction.      Organism,      Mode      of  
Reproduction

- A. Taenia solium Fragmentation
- B. Monocystis Multiple fission
- C. Gonyaulax Oblique binary fission
- D. Syllis Budding

**Answer: A**



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47. Fusion of gametes is also known as

A. Syngamy

B. Fertilization

C. Both (1) & (2)

D. Apomixis

**Answer: A**



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**48.** Drones in honey bee produce gametes by

A. Meiosis

B. Mitosis

C. Cleavage

D. Amitosis

**Answer: B**



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**49.** In which of the following organisms self fertilization is seen?

A. Sharks

B. Roundworm

C. Earthworm

D. Tapeworm

**Answer: D**



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50. In which of the following organisms fertilization is internal but development of zygote occurs outside the body of female?

A. Frog

B. Bony fishes

C. Birds

D. Dog fish

**Answer: C**



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51. Consider the following statements: a. All oviparous organisms exhibit external fertilization. b. Hermaphrodites can show cross fertilization. c. New individual can develop from ovum (without fusion with sperm) d. Embryogenesis involves cell division, cell differentiation and dedifferentiation

Which of the above mentioned statements are incorrect?

A. a & c

B. b & d

C. a & d

D. b & c

**Answer: C**



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**52.** Read the following statements:

Statements-1: Viviparous organisms give birth

to their young ones. Statement-2: In viviparous

organisms embryo gets nourishment from

yolk. Choose the correct option.

- A. Both statements 1 & 2 are correct
- B. Both statements 1 & 2 are incorrect
- C. Statement 1 is incorrect and 2 is correct
- D. Statement 1 is correct and 2 is incorrect

**Answer: D**



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