



BIOLOGY

BOOKS - TRUEMAN BIOLOGY

Reproduction In Organisms

Multiple Choice Question

1. Regeneration was first discovered in Hydra
by

A. 1)Linnaeus

B. 2)Trembley

C. 3)Thomas Addison

D. 4)Stanley

Answer: B



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2. Gerontology is the branch of science that deals with

A. birds

B. bones

C. ageing

D. earth

Answer: C



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3. Sex first originated in

A. protistans

B. simple algae

C. angiosperms

D. both 1 and 2

Answer: D



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4. Strobilanthus kunthiana (Neeelakuranji)

flowers once in 12 years, The last time this

plant flowered during September-October

2006. It is found in hilly areas in

A. Kerala and Karnataka

B. Tamil Nadu

C. Andhra Pradesh

D. Both (1) and (2)

Answer: D



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5. Blood is discharged from the uterus in

A. oestrous cycle

B. menstrual cycle

C. cardiac cycle

D. urea cycle

Answer: B



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6. Endosperm provides food to the growing

A. seeds

B. fruit

C. endosperm

D. embryo

Answer: D



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7. Which of the following animals, is /are ovoviviparous

A. Hen

B. Platypus

C. (1) and (2)

D. Rattle snake

Answer: D



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8. Parthenogenesis occurs in

A. Axolotl

B. Miracidium and Metacercaria

C. Cercaria

D. Sporocyst and redia

Answer: D



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9. Paramecium reproduces by

A. asexual reproduction

B. sexual reproduction

C. both (1) and (2)

D. none of the above

Answer: C



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10. When male differs female in morphology, it is called

- A. heterogamy
- B. homogamy
- C. sexual dimorphism
- D. hermaphroditism

Answer: C



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11. Paedogenesis is found in the larvae of

A. Taenia

B. Fasciola

C. Rana

D. Butterfly

Answer: B



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12. Oblique binary fission is found in

A. Monocystis

B. Plasmodium vivax

C. Planaria

D. Ceratium

Answer: D



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13. Which one has the capacity to reproduce without fertilization of eggs ?

A. Spider

B. Crow

C. Honey bee

D. Earthworm

Answer: C



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14. The term homothallic and monoecious are used to denote

- A. Bisexual condition
- B. Unisexual condition
- C. Staminate flowers
- D. Pistillate flowers

Answer: A



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15. What is the maximum age of parrot ?

A. 90 years

B. 25 years

C. 500 years

D. 140 years

Answer: D



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16. Which of the following statement is true about wate hyacinth ?

A. It is very useful for farmer because it acts as manure

B. It is found only in sea water

C. It takes oxygen from water which causes death of fishes

D. It gives useful products to be used in medicine

Answer: C



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17. Bryophyllum has asexual reproductive bodies namely

A. runner

B. sucker

C. bulb

D. adventitious buds

Answer: D



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18. Which of following plants is monoecious ?

A. Papaya

B. Date palm

C. Coconut

D. Both (1) and (2)

Answer: C



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19. Internal fertilization is found in all

- A. reptiles, birds, mammals
- B. insects, annelids, echinoderms
- C. sponges, flatworm, protochordates
- D. fishes, amphibians, coelenterates

Answer: A



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20. Which are hermaphrodite ?

- A. Earthworm, Hydra and Leech
- B. Cockroach, Ascaris and Hydra
- C. Earthworm, Ascaris and Leech
- D. Ascaris, Cockroach and Hydra

Answer: A



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21. Gemma cups are located on the male and female thalms of *Marchantia* as

1. they are always attached to thalms
2. they are detached from the parent body and germinate to form new individuals
3. Gemma cups are protective in function
4. they produce gametes

A. they are always attached to thalms

B. they are detached from the parent body

and germinate to form new individuals

C. Gemma cups are protective in function

D. they produce gametes

Answer: B



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22. Formation of the whole body of an organism from a small fragment is called

A. morphallaxis

B. epimorphosis

C. morphogenesis

D. metabolism

Answer: A



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23. The vegetative propagation where a branch is injured defoliated and pegged down in the ground is known as

A. layering

B. grafting

C. cutting

D. bud grafting

Answer: A



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24. It will not make any sense to produce seedless

A. grapes

B. bananas

C. guavas

D. pomegranates

Answer: D



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25. The technique of obtaining large number plantlets by tissue culture method is called

A. Plantlet culture

B. organ culture

C. micropropagation

D. macropropagation

Answer: C



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26. Fleshy buds produced in the axil of the leaves, which grow to form new plants when shed and on ground, are called

A. bulbs

B. bulbils

C. tubers

D. offsets

Answer: B



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27. Among the following which one is not a method of asexual reproduction ?

A. Budding

B. Layering

C. Sowing

D. Binary fission

Answer: C



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28. Double fertilization is found in

A. angiosperms

B. gymnosperms

C. pteridophytes

D. bryophytes

Answer: A



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29. Seeds are called products of sexual reproduction because they

A. are formed by fusion of gametes

B. give rise to new plants

C. can be stored for long time

D. are formed by fusion of pollen tubes

Answer: A



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30. Bamboo species flower

A. only once in lifetime

B. once in 12 years

C. every year

D. twice in 50-100 years

Answer: A



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31. Oestrous cycle is characteristic of mammalian females other than primates and occurs in females of

1. Monkeys

2. Cows

3. Apes

4. Humans

A. Monkeys

B. Cows

C. Apes

D. Humans

Answer: B



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32. Chromosome number in melanocyte of drosophila (fruit fly) is

a. 2

b. 4

c. 6

d. 8

A. 2

B. 4

C. 6

D. 8

Answer: D



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33. Life span of crocodile and May fly is respectively

- A. 15 years, 1week
- B. 30 years, 1 year
- C. 45 years, 1 month
- D. 60 years, 1day

Answer: D



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34. Zoospores of chlamydomonas are

- A. laterally flagelated
- B. pyramid shaped
- C. non motile asexual spores
- D. exogenously originated

Answer: A



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35. The nodes are called 'eyes' which will form a new plant

A. Ginger

B. Bryophyllum

C. Alocasia

D. Potato

Answer: D



36. Life span of tortoise is

- A. 25-50 years
- B. 50-75 years
- C. 75 to 100 years
- D. 100-150 years

Answer: D



37. Vegetatively reproduced organism is

A. Dahlia

B. Ginger

C. Potato

D. all of the above

Answer: D



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38. Ciliate motile spores are called

A. aplanospores

B. conidia

C. zoospores

D. oospores

Answer: C



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39. The endosperm in angiosperm is

A. 1)haploid

B. 2)diploid

C. 3)triploid

D. 4)none of these

Answer: C



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40. The endosperm in gymnosperms is

A. haploid

B. diploid

C. triploid

D. none of these

Answer: A



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41. In wheat, pollination take place by

A. water

B. wind

C. animals

D. bats

Answer: B



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42. In maize pollination is called

- A. anemophily
- B. entomophily
- C. zoophily
- D. hydrophily

Answer: A



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43. Chromosome number in meiocyte of human beings is

A. 40

B. 42

C. 44

D. 46

Answer: D



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44. Chromosome number in gamete of onion is

A. 8

B. 16

C. 24

D. 32

Answer: B



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45. Comparable to angiosperms, which of the following algae exhibits diplontic life cycle ?

A. Spirogyra

B. Ectocarpus

C. Polysiphonia

D. Fucus

Answer: D



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46. The term used for the offspring that are ex-actly identical to one another as well as identical to their parents is

A. twins

B. replicates

C. drones

D. clone

Answer: D



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47. Find the correct combination.

A. Zoospore in sponge

B. Gemmules in Penicillium

C. Conidium in Algae

D. Buds in Hydra

Answer: D



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48. The meiocyte is

A. haploid

B. diploid

C. triploid

D. none of these

Answer: B



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49. Grafting in monocots is rarely successful because

A. monocots have closed vascular cambium

B. monocots are without cambium

C. both (1) and (2)

D. both wrong

Answer: C



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50. If you have taken scion of desi mango and stock of dasherri mango, what type of mango will be born ?

A. Dasherri

B. Desi

C. Hybrid

D. None

Answer: B



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51. Vegetative reproduction of Agave occurs through

A. rhizome

B. stolen

C. bulbils

D. suckers

Answer: C



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52. New Banana plants develop from

A. rhizome

B. suckers

C. stolons

D. seed

Answer: B



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53. Tea and Cocoa are propagated by

A. layering

B. stem cuttings

C. grafting

D. bud grafting

Answer: B



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54. In *Lacerta saxicola armaniaca* (lizard) there are

A. females only

B. males only

C. bisexual only

D. Both (1) and (2)

Answer: A



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55. In which type of parthenogenesis, only males are produced ?

A. Arrhenotoky

B. Thelytoky

C. Amphitoky

D. Both (1) and (2)

Answer: A



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56. Vegetative propagation plays a vital role in

A. sericulture

B. apiculture

C. silviculture

D. horticulture

Answer: D



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57. Adventive embryony in Citrus is due to

A. egg

B. nucellus

C. embryo

D. integument

Answer: B



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58. After fertilization the ovary develops into

A. seed

B. fruit

C. pericarp

D. stamens

Answer: B



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59. Ginger multiplies vegetatively by

A. bud

B. tuber

C. corm

D. rhizome

Answer: D



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60. Layering is used for vegetative propagation of

A. Jasmine

B. Rose

C. Mango

D. all of the above

Answer: A



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61. In vegetative propagation by tubers, which of following remains constant through generations?

A. Morphology

B. Vigour only

C. Vigour and morphology only

D. Morphology, vigour and disease
resistance

Answer: D



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62. Natural parthenogenesis is found in

- A. aphids
- B. honey bees
- C. wasps

D. all the above

Answer: D



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63. Stem cuttings are commonly used for the propagation of

A. Mango

B. Cotton

C. Rose

D. Banana

Answer: C



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64. Mango and Guava are propagated through

A. tissue culture

B. grafting

C. stem cuttings

D. layering

Answer: B



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65. First successful animal clone was

- A. 1)dolly goat
- B. 2)dolly sheep
- C. 3)molly goat
- D. 4)molly sheep

Answer: B



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66. The terminal irreversiable stage of ageing is called

A. autogamy

B. syngamy

C. senescence

D. cytogames

Answer: C



67. Which type of binary fission occurs in paramecium

- A. simple binary fission
- B. longitudinal binary fission
- C. transverse binary fission
- D. oblique binary fission

Answer: C



68. Plasmotomy occurs in

A. 1) Hydra

B. 2) Obelia

C. 3) Opalina

D. 4) Plasmodium

Answer: C



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69. Gemmule formation occurs in

- A. fresh water sponge
- B. some marine sponges
- C. *Labeo rohita*
- D. Both (1) and (2)

Answer: D



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70. Menstrual cycle occurs in

A. old world monkeys

B. apes

C. humans

D. all of these

Answer: D



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71. Isogametes are present in

A. Fuccus

B. Cladophora

C. Frog

D. Bird

Answer: B



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72. In grafting stock and scion ought to be joined

A. Phloem to phloem

B. xylem to xylem

C. pith to pith

D. cambium to cambium

Answer: D



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73. *Ramphotyphlops braminus* produces females only by parthenogenesis. It is a

A. 1) snake

B. 2)bird

C. 3)frog

D. 4)mammal

Answer: A



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74. Induction of rooting on stems before separating them from parent plant is

1. grafting

2. layering

3. root-stem joint

4. cutting

A. grafting

B. layering

C. root-stem joint

D. cutting

Answer: B



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75. Grafting in sugarcane can not be performed because

1. vascular bundles are scattered
2. phloem is internal to xylem
3. sugarcane plant is delicate
4. it is unable to bear injury

A. vascular bundles are scattered

B. phloem is internal to xylem

C. sugarcane plant is delicate

D. it is unable to bear injury

Answer: A



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76. In a grafted plant, stock has 48 chromosomes while scion has 24 chromosomes. The chromosome number for root cells and eggs are

- a. 48 and 24
- b. 24 and 24
- c. 24 and 12
- d. 48 and 12

A. 48 and 24

B. 24 and 24

C. 24 and 12

D. 48 and 12

Answer: D



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77. Ramet is

A. clone

B. callus

C. cell aggregate

D. individual member of clone

Answer: D



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78. Development of seed from an unfertilized egg is

A. vivipary

B. pathenocarpy

C. Apomixis

D. apospory

Answer: C



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79. Which of the following groups of plants are propagated through underground root

A. Bryphyllum and Kalanchoe

B. Pistia, Chrysanthemum and Pineapple

C. Ginger , Potato, Onion, Zamikand

D. Swee Potato, Asparagus, Tapioca and

Dahlia

Answer: D



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80. A scion is grafted to a stock. The quality of fruits produced will be determined by the genotype of -

A. stock

B. scion

C. both stock and scion

D. neither stock nor scion

Answer: B



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81. The living organism can be unexceptionally distinguished from the non-living things on the basis of their ability for

A. reproduction

B. growth and movement

C. responsiveness to touch

D. intersection with the environment and
progressive evolution

Answer: A



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82. Maximum life span of Eagle is

A. 90 years

B. 15 years

C. 10 years

D. 5 years

Answer: A



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83. Male gametes in angiosperms are formed by the division of

A. 1)vegetative cell

B. 2)microspore mother cell

C. 3)microspore

D. 4)generative cell

Answer: D



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84. In which of the following organisms, self fertilization is seen ?

A. Fish

B. Roundworm

C. Earthworm

D. Tapeworm

Answer: D



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85. Which of the following animals is having longitudinal binary fission

A. Euglena

B. Plasmodium

C. Planaria

D. Paramecium

Answer: A



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86. These processes are necessary for the complete development of male gametophyte from pollen mother cell

A. One meiotic and two mitotic divisions

B. One meiotic cell division and one mitotic
and division

C. Two meiotic cell divisions and one
mitotic cell division

D. Two mitotic cell divisions

Answer: A



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87. From which cells peripheral region of radicle is produced

- A. vegetative cell
- B. Hypophysis
- C. Apical octant
- D. Micropylar octant

Answer: B



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88. It is a process of embryosac formation from cell of nucellus, without undergoing meiosis ?

- A. Polyembryony
- B. Incompatibility
- C. Parthenocarpy
- D. Parthenogenesis

Answer: D



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89. It can regenerate entire alimentary canal.

A. Amphibian

B. Fish

C. Sea cucumber

D. Parthenogenesis

Answer: C



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90. Spermatids are transformed into spermatozoa by

A. spermatogenesis

B. spermiogenesis

C. Meiosis

D. spermiation

Answer:



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91. Study of pollen grain is called

1. Entomology
2. Palynology
3. Paleobotany
4. Co-taxonomy

A. Enthmology

B. Palynology

C. Paleobotany

D. Co-taxonomy

Answer: B





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92. Which is immortal?

A. Plasma Cell

B. Germ Cell

C. Brain Cell

D. Kidney Cell

Answer: B



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93. Monocarpic plant

A. flowers twice in every year

B. bears only one type of flower

C. flowers once in every year

D. dies after flowering once in its life cycle

Answer: D



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94. Exponential growth occur in

A. yeast

B. asexual reproduction

C. bacteria

D. all of these

Answer: B



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95. Vegetative propagation in mint occurs by

A. 1.offset

B. 2.rhizome

C. 3.sucker

D. 4.runner

Answer: C



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96. Synergids are

A. haploid

B. diploid

C. triploid

D. tetraploid

Answer: A



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97. Match the items in column I with column II and choose the correct option

Column I	Column II
A Binary fission	1. Algae
B Zoospore	2. <i>Amoeba</i>
C Conidium	3. <i>Hydra</i>
D Budding	4. <i>Penicillium</i>
E Gemmules	5. Sponge

i. A-1, B-4, C-5, D-3

ii. A-2, B-1, C-4, D-3

iii. A-2, B-4, C-3, D-5

iv. A-1, B-4, C-3, D-2

A. A-1, B-4, C-5, D-3

B. A-2, B-1, C-4, D-3

C. A-2, B-4, C-3, D-5

D. A-1, B-4, C-3, D-2

Answer: B



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98. Which one of the following animals possesses high regeneration capacity?

A. 1) Planaria

B. 2)Taenia

C. 3)Salpa

D. 4)Periplaneta

Answer: A



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99. Asexual reproduction in fungi takes place

by

A. endospore

B. gametangia

C. exospores

D. conidiospore

Answer: D



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100. Gymnosperms bear seeds but lack fruits because they lack

A. cotyledon

B. embryo

C. ovary

D. ovule

Answer: C



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101. Which one of the following processes results in the formation of clone of bacteria ?

A. Binary fission

B. Conjugation

C. Transformation

D. Transduction

Answer: A



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102. Egg apparatus is

A. an egg cell and two antipodals

B. an egg cell and two synergids

C. an egg cell and two polar nuclei

D. an egg and the central cell

Answer: B



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103. Breeding of crops with high levels of minerals vitamins and proteins called

A. somatic hybridisation

B. biofortification

C. biomagnification

D. micropropagation

Answer: B



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104. Vegetative propagation in Pistia occurs by

A. stolon

B. offset

C. runner

D. sucker

Answer: B



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105. Which of the following is pollinated by water

1. Viola
2. Yucca
3. Oxalis
4. Zostera

A. Viola

B. Yucca

C. Oxalis

D. Commelina

Answer:



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106. Find out the wrongly matched pair

A. tuber - potato

B. rhizome - ginger

C. bulbil- Agave

D. leaf buds - banana

Answer: D



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107. The term parthenogenesis was coined by

A. Owen

B. Bovri

C. Balfour

D. Grobber

Answer: A



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108. The offspring formed by asexual reproduction are identical and are referred to as

1. Zoospores

2. Clones

3. Conidia

4. Gemmules

A. Zoospores

B. Clones

C. Conidia

D. gemmules

Answer: B



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109. The type of pollinating involving transfer of pollen grains from anther of the stigma of the same flower is known as

A. geitonogamy

B. xenogamy

C. autogamy

D. apogamy

Answer: C



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110. The stage between two meiotic division is called

A. interphase

B. cytokinesis

C. interkinesis

D. karyokinesis

Answer: C



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111. Match list I with list II and select the correct option

List I	List II
A Gemmules	1. <i>Agave</i>
B Leaf-buds	2. <i>Penicillium</i>
C Bulbil	3. Water hyacinth
D Offset	4. Sponges
E Conidia	5. <i>Bryophyllum</i>

A. A-4, B-5, C-1, D-3, E-2

B. A-4, B-3, C-2, D-1, E-5

C. A-3, B-5, C-4, D-2, E-1

D. A-4, B-1, C-5, D-3, E-2

Answer: A



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112. The chromosomal number in the meiocytes of housefly is :

A. 8

B. 12

C. 21

D. 23

Answer: B



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113. The 'Eyes' of the potato tuber are :-

- A. root buds
- B. flower buds
- C. shoot buds
- D. axillary buds

Answer: D



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114. Nuclear polyembryony is reported in species of

A. Citrus

B. Gossypium

C. Triticum

D. Brassica

Answer: A



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115. Biodiversity of a geographical region represents

- A. endangered species found in the region
- B. the diversity in the organisms living in the region
- C. genetic diversity in the dominant species of the region
- D. None of these

Answer: B



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116. Testa of seed develops from

A. ovary wall

B. hilum

C. outer integument of ovule

D. funicle

Answer: C



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117. ovule in which funicle, chalaza and micropyle occur in one vertical plane is

A. 1)campylotropous

B. 2)amphitropous

C. 3)orthropous

D. 4)anatropous

Answer: C



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118. Ovule integument gets transformed into

A. seed

B. fruit wall

C. seed coat

D. cotyledons

Answer: C



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119. Both, autogamy and geitonogamy are prevented in

A. Papaya

B. cucumber

C. castor

D. maize

Answer: A



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120. Dentrification is carried out by

A. Pseudomonas

B. Nitrobacter

C. Nitrosomonas

D. Nitrococcus

Answer: A



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121. In general, pollen tube enter the ovule through

A. micropyle

B. chalaza

C. hilum

D. funicle

Answer: A



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122. Transfer of pollen from anthers of one flower to the stigma of another flower of the same plant is

A. 1) geitonogamy

B. 2) xenogamy

C. 3) cleistogamy

D. 4) chasmogamy

Answer: A



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123. The endosperm in angiosperm is

A. haploid

B. diploid

C. triploid

D. tetraploid

Answer: C



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124. The fleshy edible part of an apple is

A. thalamus

B. nucellus

C. ovary

D. endosperm

Answer: A



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125. Why asexual reproduction is sometimes disadvantageous ?

A. It allows animals that do not move around to produce offspring without findingmate

B. it allows an animals to produce many offspring quickly

C. it save the time and energy of gamete production

D. it produce genetically uniform populations

Answer: D



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126. Meiosis takes place in

- A. Gemmule
- B. Megaspore
- C. Meiocyte
- D. Conidia

Answer: C



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127. Monoecious plant of Chara shows occurrence of

A. Upper antheridium and lower oogonium on the same plant

B. Upper oogonium and lower antheridium on the same plant

C. Antheridiphore and archegoniophore on the same plant

D. Stamen and carpel on the same plant

Answer: B



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128. Which one of the following is wrong about Chara

A. 1) Globule is male reproductive structure

B. 2) Upper oogonium and lower round antheridium

C. 3) Globule and nucule present on the same plant

D. 4) Upper antheridium and lower oogonium

Answer: D



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129. In ginger , vegetative propagation occurs through :

A. Offsets

B. Bulbils

C. Runners

D. Rhizome

Answer: D



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130. Which of the following pairs is not correctly matched ?

Mode of reproduction	Example
(1) Offset	Water hyacinth
(2) Rhizome	Banana
(3) Binary fission	<i>Sargassum</i>
(4) Conidia	<i>Penicillium</i>

A.

Mode of reproduction	Example
Offset	Water hyacinth

B.

Mode of reproduction	Example
Rhizome	Banana

C.

Mode of reproduction	Example
Binary fission	Sargassum

D.

Mode of reproduction	Example
Conidia	Penicillium

Answer: C



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131. Which of the following flowers only once in its life-time

A. Papaya

B. Mango

C. Jackfruit

D. Bamboo species

Answer: D



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