



BIOLOGY

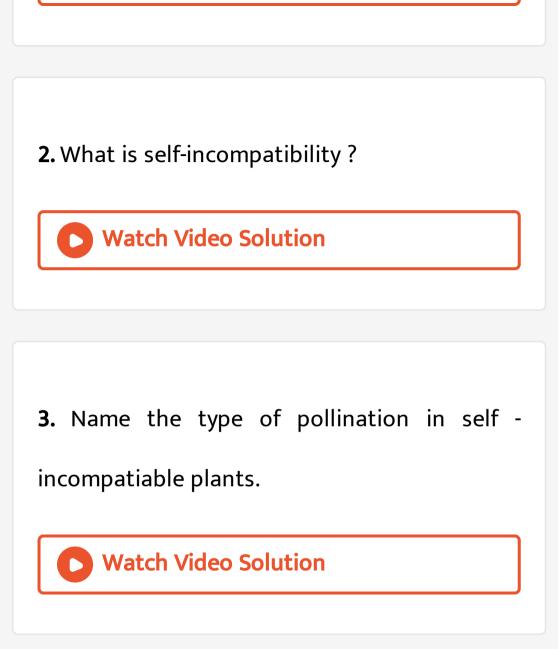
BOOKS - MBD

MODEL TEST PAPER -3



1. State the difference between meiocypte and

gamete with respect to chromosome number.

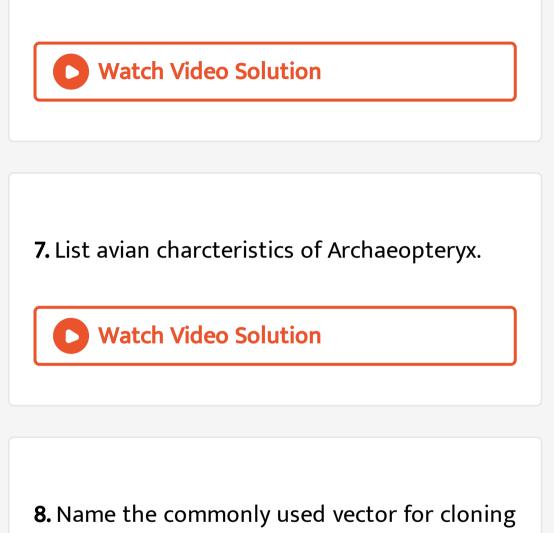


4. Why is whiptail lizard referred to as pathenogenetic?
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5. Do you think Mendal's laws of inheritance would have been different if the characters that he close were located on the same chrosome.



6. What is industrial melanism ?



genes into higher organisms.

9. Gene therapy can cure the important genetic disorders in humans. Comment.

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10. When and why do some animals like snails

go into aestivation?

11. Under unfavourable conditions, Amoeba

shows encystation.what does it mean?

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12. Write one difference between binary fission

and budding.



13. Which of the following statement is true of hydra?

A. a.it produces asexual gemmules.

B. b.it produces unicellular bud.

C. c. it produces multicellularbud.

D. d. none of these.

Answer:

14. How is the phenomenon regeneration

useful to a lizard?

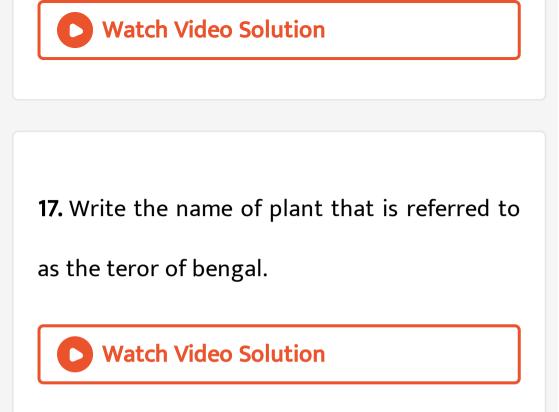


15. Name the vegetative propagules of Agave

and bryophyllum.

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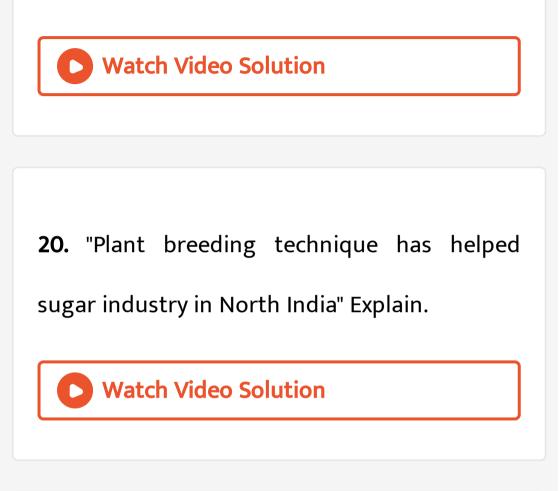
16. Give one example each of a plant that reproduces by runner and offset



18. Removal of goands can not be considered

as contraceptive options. Why?

19. How do we compute the age of fossils?



21. Biotechnological techniques can help to diagnose the pathogen much before the

symptoms of the disease appear in the

patient. Suggest any two such techniques.



22. Mention the form in which inactive protein toxin is produced by Bacillus thuringiensis.How does it get activated in the pest body to kill it?

23. Explain the role of enzymes in the extraction of DNA from Rhizopus in its purest form.



24. Define vector. Give the properties of a "Good Vector".



25. How and why is the bacterium Thermus aquatics employed in recombinant DNA technology? Explain.



26. Why are nutrient cycles in nature called

biotechnological cycles?

27. How have human activities caused desertification ? Explain.Watch Video Solution

28. Which of the following statement is true of ginger?

A. a. germinating bud appears from the eye

of stem tuber

B.b. germinating bud appears from the

node of the rhizome

C. c. germinating bud appear from the

notch of the leaf margin

D. d. none of these

Answer:

29. Name the vegetative propagules of potato

and pistia

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30. Briefly explain XX-XO type of sex

determination.

31. Name the units of vegetative propagation

in grass and water hyacinth.

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32. Which of the following statement is true in bryophyllum?

A. a. germinating bud appears from the eye

of the tuber.,

B.b. germinating bud appear from the

node of rhizome.

C.c. germinating bud appear from the

notch at the leaf margin

D. d. none of these.

Answer:

33. which of the following statement is true of potato?

A. a.germinating bud appears from the eye

of the stem tuber

B.b. germinating bud appears from node

of rhizome.

- C. c. germinating bud appear from the notch at the leaf margin
- D. d. none of these.

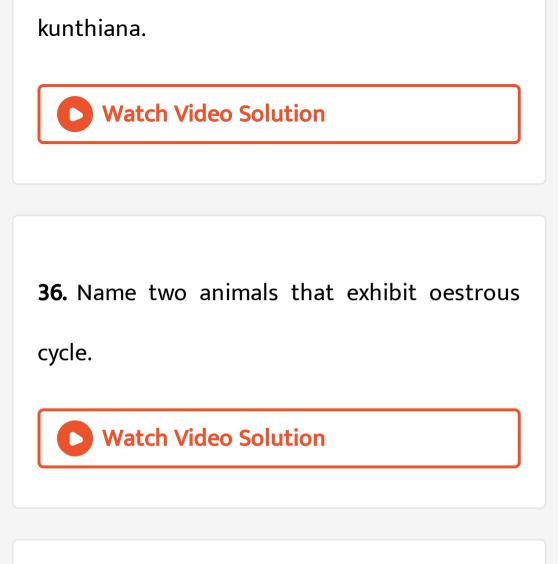
Answer:



34. Name the phase, all organisms have to pass through before they can reproduce sexually.

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35. Mention the unique flowering phenomenon exhibited by strobilanthus



37. What is competition? Why is it not true

always?



38. Explain competitive release and Gause's competitive exclusion principle.



39. A women has conceived and implanatation has occurred. Discuss the sequence of changes up to parturition which will take place with in her body under the influence of hormones.



40. Mention the unique feature with respect

to flowering and fruiting in bamboo species.



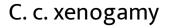
41. When the pollen of a flower is transferred

to the stigma of another flower on the same

plant, the process is known as

A. a. autogamy

B. b. geitonogamy



D. d. cleistogamy

Answer:

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42. In a fertilised embryo sac, the haploid, diploid and triploid structures are;

A. a. Synergids, zygote and primary

endosperm nucleus.

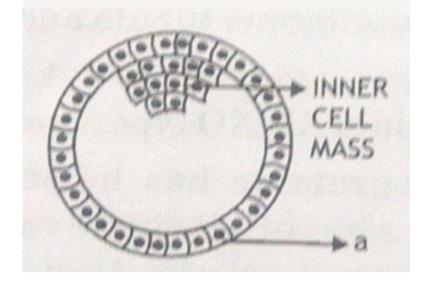
- B. b. Synergids, antipodal and polar nuclei.
- C. c. Antipodal,synergid and primary endosperm nucleus.
- D. d. Synergid, polar nuclei and zygote.

Answer:

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43. Study the figure given below and answer

the questiojns that follow:



Where are the stem cells located in this embryo?

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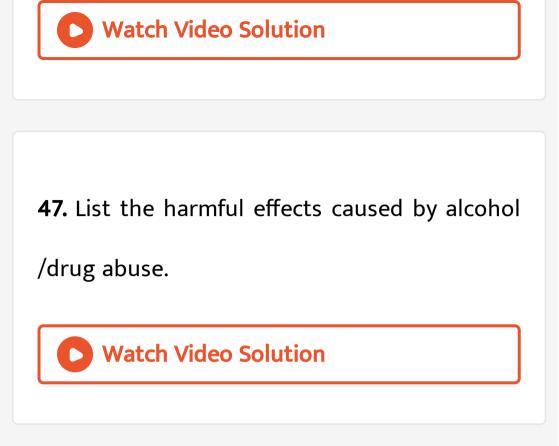
44. List any four major goals of Human Genome project.



45. Write any four ways by which the knowledge from HGP is of significance for humans.

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46. How does the process of natural selection affect Hardy-Weinberg equilibrium? List the other four factors that disturb the equilibrium.



48. Of a patient is advised anti-retroviral drug, Name the possible infection he/she is likely to be suffering from . Name the causative organism.





49. How do vaccines prevent subsequent

microbial infection by the same pathogen?

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50. Differentiate between a Cancerous cell and

a Normal cell.

51. Many microbial pathogens enter the gut of humans along with food. Name the physiological barrier that oritects the body from such pathogens.