



BIOLOGY

BOOKS - GURUKUL BOOKS & PACKAGING BIOLOGY (HINGLISH)

OCTOBER 2015

Section I Botany Select And Write The Most Apporopriate Answer From The Given Alternatives For Each Sub Questions

1. How many meiotic divisons will be needed to					
produce	44	female	gametophytes	in	
angiosper	ms?				
A. 11					
B. 22					
C. 44					
D. 66					

Answer: B



2. If the codon of a m-RNA is AUG what should

be its anticodon on t-RNA?

A. UAG

B. UAC

C. GUA

D. AUC

Answer: B

3. Enzymes are used as biological

scissors in r-DNA technology.

A. Restriction endonucleases

B. DNA ligases

C. DNA polymerases

D. Reverse transcriptases

Answer: A::C::D

4. Vegetative propogation takes place with the

help of leaves in Plant

A. Klanchoe

B. Oxalis

C. Cynoden

D. Dahlia

Answer: A::C

5. Trichoderma konigi is a source of

enzyme.

A. invertase

B. lipase

C. pectinase

D. cellulase

Answer: A::C::D

6. What is the correct sequence of the stages

in bacteriophage lytic cycle?

A. Attachement, Penetration, Lysis,

Multiplication

B. Attachement, Penetration, Multiplication

, attachement

C. Lysis, Penetration, Multiplication,

Attachement

D. Attachement,	Lysis,	Multiplication,
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Penetration

Answer: A::B::C

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7. Edible fruiting bodies are produced by

A. Yeast

B. Rhiopus

C. Nostoc

D. Agaricus

Answer: A::D

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Section I Botany Answer Each Questions In One Sentense Each

1. Give reason: Emasculation is done in a flower

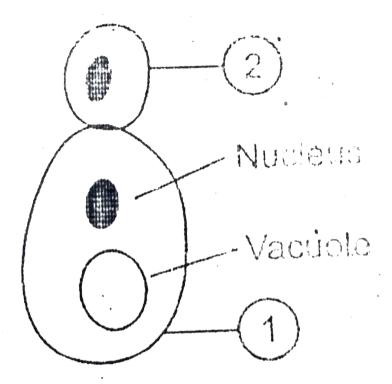
which is selected as female parent.





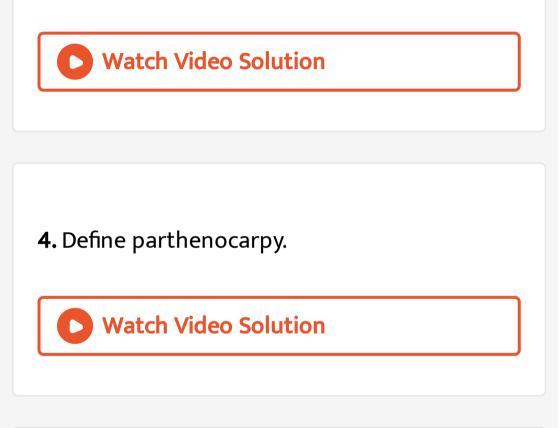
2. Label is the parts (1) and (2) in budding of

yeast cell.



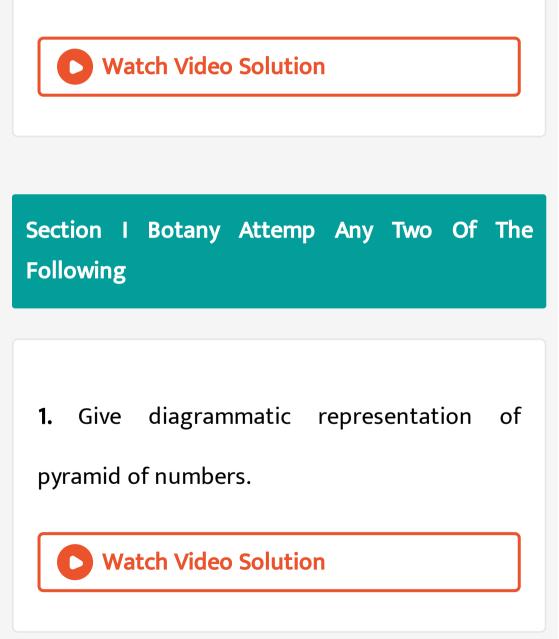






5. What is meant by ecological succession?

6. Give the role of VAM related to soil fertility.



2. With the help of a suitable example, explain

protandry.

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3. How depletion of ozone layer affects living

organisms?



4. Give graphic representation of cyclic photophosphorylation.
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5. What is the role of microbes in sewage

treatment plant?

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6. Describe the steps of PCR technique.



7. Write a short note on multiple alleles considering the example of human blood group.

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8. What is 'biofortification'? Which steps would

you follow to develop a new variety of crop

plant by selective breeding?





9. Draw the T.S. of mature anther and explain

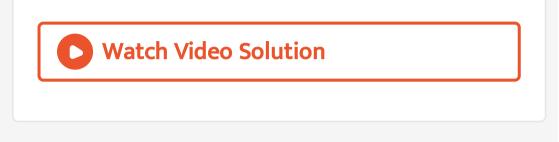
briefly.



10. Give the schematic representation of glycolysis.

11. Explain semiconservative mode of DNA

replication.



Section Ii Zoology

- **1.** Elephantiasis is caused by.....
 - A. Wuchereria bancrofti
 - B. Plasmodium vivax
 - C. Bedbug

D. Elephant

Answer: (a) Wuchereria bancrofti

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2. Genetically engineereed human insulin is obtained by inserting the gene in.....

A. Pancreatic cells

B. E. coli

C. Agrobacterium tumefaciens

D. Drosophila melanogaster

Answer: (b) E.coli

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3. Urea splitting bacteria are responsible fortypes of stones.

A. calcium oxalate

B. calcium phosphate

C. calcium carbonate

D. struvite

Answer: (d) struvite

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4. Which of the following is the connecting link between apes and man?

A. Dryopithecus

B. Australopithecus

C. Homo erectus

D. Homo neanderthalensis

Answer: (b) Australopithecus

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5. Crippling disease is caused due to poisoning of

A. Arsenic

B. Lead

C. Mercury

D. Selenium

Answer: A

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6. The genetic marker used as key factor in DNA fingerprinting is

A. VNTRs

B. Exons

C. Introns

D. DNA probes

Answer: (a) VNTRs

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7. Cells of trophoblasts which remains in contact with inner cell mass are called

A. Inner mass cells

B. Blastomere

C. Amniogenic cells

D. Cells of Rauber

Answer: (d) Cells of Rauber

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Section Ii Zoology Answer The Following In One Sentence Each

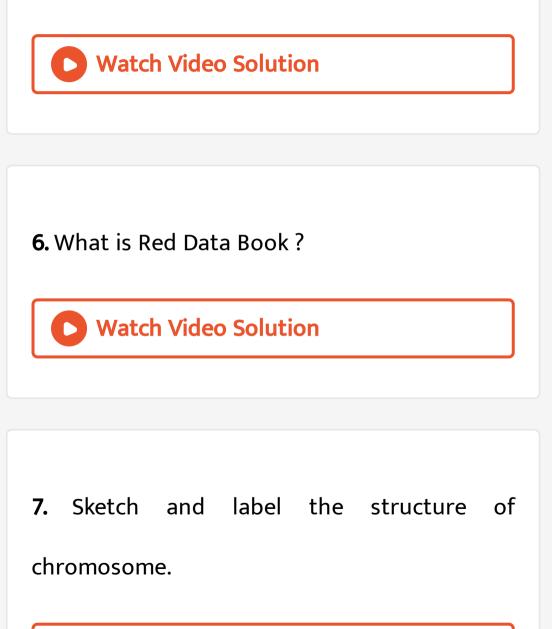
1. Mention any 'two' methods used to prevent

spoilage of fish.

2. Genome Watch Video Solution 3. Organic evolution. Watch Video Solution

4. What is criss-cross inheritance ?

5. Mention any 'two' functions of uterus?







Section Ii Zoology Attempt Any Two Of The Following Questions

1. Describe the concept of Survival of the

fittest.

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2. Give economic importance of apiculture.

3. Give the importance of transgenic animals.

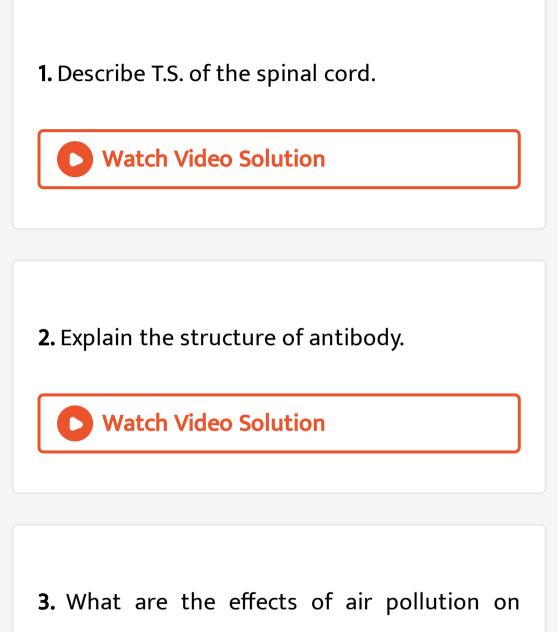


4. Explain the mechanism of sex determination

in human being.

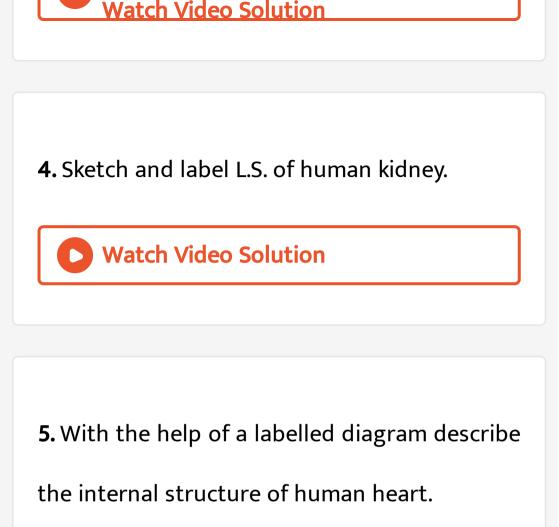


Section Ii Zoology Attempts Any Two Of The Following



human beings?





6. Describe the stages during three trimesters

of pregnancy. Explain the process of parturition. Add a note on lactation.