



# BIOLOGY

## BOOKS - SUPER COMPANION 5 IN 1

### PUE MODEL QUESTION PAPER 2

#### Part A

1. What is a staminate flower?



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2. What is amniocentesis?



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3. Who provided an experimental proof for chemical evolution of life?



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4. Name the causative organism of ringworms.



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5. What are oncogenic viruses?



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6. Name the bioactive molecule used in organ transplantation.



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7. Write the function of DNA ligase.



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**8.** What are eurythermal organisms?



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**9. (a)** What is ecological succession?



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**10.** Define Endemism.



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## Part B

1. Mention any two vegetative propagules of Angiosperms.



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2. Differentiate between chasmogamous and cleistogamous flowers.



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3. Mention any two hormones secreted by Sex organs.



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4. Expand GIFT and ICSI?



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5. What are the measures one has to take to prevent from contracting STDs?



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6. What is male heterogamety? Give an example.



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7. Name the technique involved in separation and isolation of DNA fragment. Which dye is used to stain gel to make the DNA visible under UV light.



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8. With reference to transcription define.

(a) Splicing (b) Capping



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1. What is asexual reproduction? Mention any two types.



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2. Write karyotype of Kline felter's syndrome. Mention any two symptoms.



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3. List out any three important goals of Human Genome project.



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4. Give the meaning of the following terms.

- (a) Explant (b) Totipotency ( c ) Somaclones ( d) Somatic hybrids € Micropropagation.



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5. What is a Plasmid? Mention two sites of plasmid.



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6. Write any three effects of Global Warming.



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7. Write the major causes of biodiversity losses.



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## Part D Section I

1. Define the following:

(a) Eutrophication

(b) Biological magnification

(c) Biochemical oxygen demand.



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2. State the law of independent assortment.

Write schematic representation of dihybrid cross.



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3. Explain two salient features of genetic code.



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4. Explain the following terms:

(a) Adaptive radiation

(b) Founder's effect

(c) Homologous organs

(d) Analogous organs

(e) Saltation



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5. List the harmful effects caused by alcohol drug abuse.





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6. (a) How do multiple ovulation and embryo transfer (MOET) technology helps in increasing the heart size?

(b) Mention any two microbes as a source of SINGLE CELL PROTEIN.



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7. Describe the role of microbes as biofertilizers.



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## Part D Section II

1. Draw a neat labelled diagram of a typical Anatropous ovule of angiosperms.



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2. What is Spermatogenesis ? Explain the process of spermatogenesis.





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3. In which ways genetically modified plants are useful?



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4. Mention Five population interactions with an example each.



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5. Draw a schematic representation of the phosphorous cycle.



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