



# BIOLOGY

## BOOKS - OSWAAL BIOLOGY

### (KANNADA ENGLISH)

## II PUC TOPPER'S ANSWER MARCH- 2015

### Part A

1. What is Biomagnification?



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**2. Name a causative organism of pneumonia.**



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**3. What is adaptive radiation?**



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**4. Define Parthenogenesis.**



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5. Papaya plants exhibit xenogamy only. Why?



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6. What is detritus?



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7. Mention the use of Cyclosporin A.



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**8.** Name the plant from which cocaine is obtained.



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**9.** Mention the technique used to separate DNA fragments in rDNA technology.



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10. Mention the role of oxytocin.



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## Part B

1. Distinguish between menstrual cycle and oestrus cycle.



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2. Mention any four sexually transmitted diseases.



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3. tRNA is an adaptor molecule. Comment.



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4. Distinguish between Benign tumour and Malignant tumour.



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5. List any four hormones secreted by placenta.



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6. What are the conclusions drawn by T.H Morgan from the crossing experiment?



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7. Discuss the role of fungi as biofertilizers.



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8. Write a note on single cell protein.



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**Part C**



1. What is aneuploidy? Write any four symptoms of Down's syndrome.



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2. RNA polymerases in eukaryotes show division of labour. Substantiate.



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3. Suggest any three assisted reproductive technologies to overcome infertility.



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4. Name asexual reproductive structure in

(i) Hydra

(ii) Chlamydomonas

(iii) Penicillium

(iv) Spong



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5. Name the asexual reproductive structure produced from Chlamydomonas.



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6. Mention the asexual reproductive structures of Penicillium.



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7. Mention three types of Innate barriers of defence with an example each.



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8. Draw a neat labelled diagram of a typical Biogas plant.



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9. What is endemism?



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**10.** (b) Mention 'The Evil Quartet' of biodiversity loss.



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**11.** How does pollination is achieved in vallisneria and sea grasses



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1. Draw a neat labelled diagram of sectional view of human female reproductive system.



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2. Write the steps involved in multiple ovulation and embryo transfer.



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3. Differentiate out-crossing and cross breeding.



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4. Bring out the principal events in the replication of DNA.



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5. Explain the transverse section of young anther with a labelled diagram.



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6. Explain Brood parasitism and sexual deceit' as an interaction of species with an example each.



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7. With reference to flower colour in snapdragon, explain incomplete dominance.



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**8.** Give the diagrammatic representation of Miller's experiment.



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**9.** Development of Bt cotton has reduced the use of insecticides . Justify.



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**10. (b) Write a note on gene therapy.**



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**11. Mention two cloning vectors.**



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**12. What are the effects of ozone depletion?**



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**13. (b)** BOD is an index of water pollution.

Comment.



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



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**15. (b)** Represent an ideal pyramid of numbers in a grassland ecosystem.



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**16. (c)** Name the two types of nutrient cycles with an example each.



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