



BIOLOGY

BOOKS - SUPER COMPANION 5 IN 1

SUPPLEMENTARY EXAM QUESTION

PAPER JUNE 2018

Part A

1. Define Menarche?



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2. Name the disease caused by *Haemophilus influenzae*.



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3. Mention the importance of selectable markers in plasmids.



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4. Which is the fish caught in South Africa in 1938, which was thought to be extinct?



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5. Name the hormone released by the ovary in the later phase of pregnancy.



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6. Why meristems are preferred in tissue culture?



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7. Mention the type of antibody present in the colostrum.



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8. Why mammals of colder climate generally have shorter ears and limbs?



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9. Name the unit used for measurement of thickness of Ozone in a column of air.



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10. Mention the commercial importance of *Monascus Purpureus*.



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Part B

1. Differentiate between menstrual cycle and estrous cycle.



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2. What is test cross? Mention its significance.



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3. What are analogous organs? Give an example.



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4. Mention the objectives of biofortification.



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5. Draw a neat labelled diagram of structure of an antibody.



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6. What are palindromic nucleotide sequences? Write the restriction site for Eco-RI enzyme.



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7. Name any two species which have become extinct due to over exploitation.



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8. What are sacred grooves? Give an example.



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Part C

1. Define asexual reproduction. Mention asexual reproductive structures in penicillium and sponge.



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



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3. Write a note on colour blindness.



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4. What is adaptive radiation?



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5. What are ecological pyramids? Draw an ideal pyramid of energy and mention its units.



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6. What is biopsy test? Mention any two techniques of cancer detection and diagnosis.



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7. Write the important use of the following in r-DNA technology.

(a) P.C.R. (b) Ethidium bromide (c) Bioreactor (r + 1 + 1)



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8. Describe the process of primary succession on bare rocks.



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Part D Section I

1. (a) What are false fruits? Give an example.

(b) Write the characteristic features of insect pollinated flowers.



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2. Draw a neat labelled diagrammatic view of human male reproductive system.



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3. (a) Explain the following assisted reproductive technologies :

(i) IVF-ET (ii) ZIFT (iii) ICSI

(b) Name any two hormone producing IUD's.



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4. Explain the law of independent assortment with reference to seed shape and seed colour in garden pea plant.



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5. Briefly describe the various steps involved in plant breeding.



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6. (a) Mention the chemical linkages between the components of DNA.

(b) Differentiate Euchromatin from Heterochromatin.



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Part D Section Ii

1. What are VNTR's? Mention the steps to detect VNTR's in identifying criminals in forensic investigations.



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2. (a) Draw a neat labelled diagram of typical biogas plant.

(b) Mention the beneficial role of anaerobic bacteria in secondary sewage treatment.



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3. List the benefits of transgenic animals.



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4. (a) Write any four factors that influence population density.

(b) Draw a graph showing exponential growth curve.

What is sexual deceit?



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5. Write a short note on the following :

(a) Green house gases (b) Catalytic converter

(c) Ultra-violet B (d) Ozone layer

(e) Electrostatic precipitator.



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