



# BIOLOGY

## BOOKS - MBD

### Set II

#### Example

1. The first cellular form of life evolved

A. in air

B. on land

C. in water environment

D. in deep soil

**Answer:**



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2. Name the scientists and write how did they explain Mendel's laws after the chromosomes were discovered.



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3. List two diseases that spread through droplets.



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4. What makes humus a reservoir of nutrients?  
Name and write about the process humus undergoes that enriches the soil.



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5. You are asked to find the genotypes of a tall pea plant growing in your school garden. Name the cross and explain how would you confirm the genotypes.



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6. What is adaptive radiation? Explain with the help of a suitable example.



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7. Explain the role of *Agrobacterium tumefaciens* in developing resistance in tobacco plant against nematode *Meloidogyne incognita*. Name the processes responsible for this.



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8. Explain the process of syngamy and triple fusion in angiosperms.



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**9.** Explain the development of dicot embryo giving suitable example.



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**10.** Draw and label three important parts of a mature dicot embryo.



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**11.** Name the gonadotropins in human. Explain their role in human male and female, respectively.



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**12.** Louis Pasteur demonstrated that

A. early life came from outer space

B. non-living chemicals produced living molecules

C. life comes from pre-existing life

D. life originated spontaneously

**Answer:**



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**13.** Name one airborne and a waterborne disease in humans. List one specific symptom of each one of them.



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**14.** State what are Mendelian disorders. Both thalassemia and colour blindness are categorised as Mendelian disorders. Justify.



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**15.** Write the palindromic nucleotide sequence *EcoR*<sub>1</sub> recognises.



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**16.** Draw the vector DNA and a foreign DNA showing the sites where EcoRI has acted to form the sticky ends.



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**17.** Name the enzyme that helps in forming recombinant DNA.



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**18.** Rearrange the following in the correct order of their appearance on Earth between two million years and 40,000 years back Neanderthals, Australopithecus, Homo erectus and Homo habilis.



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**19.** Which one of the above had the largest brain size?



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**20.** Which one of the above  
ate fruits?



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**21.** Explain Mendel's law of segregation with  
the help of a monohybrid cross.



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**22.** Describe the process of double fertilisation in angiosperms.



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**23.** Trace the development of polyploidal cell that is formed after double fertilisation in a non-albuminous seed and albuminous seed.



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**24.** List any two reasons other than physical congenital disorders for causing infertility in couples.



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**25.** Explain how IVF as a technique helped childless couples in having children .



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**26. Explain:**

the term GIFT and ICSI



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