



BIOLOGY

BOOKS - MODERN PUBLICATION

SAMPLE PAPER 2017

Exercise

1. Choose the correct answer from the choices given under each bit.

Which parasite cause amoebic dysentery ?

A. E.coil

B. A. proteus

C. E. histolytica

D. P. vivax

Answer: C



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2. Choose the correct answer from the choices given under each bit.

Which antibody intitates allergic reactions ?

A. Ig G

B. Ig D

C. Ig A

D. Ig E

Answer: D



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3. Which hormone is secreted during emotional states such as fear, anger and pain?

A. Insulin

B. Thyroxin

C. Adrenaline

D. Oxytocin

Answer: C



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4. What is concervation of biodiversity outside the natural habitat called as?

A. In-Situ

B. In-Vitro

C. In-Vivo

D. Ex-Situ

Answer: D



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5. Choose the correct answer from the choices given under each bit.

Which enzyme is used to join fragments of DNA ?

A. Ligase

B. Polymerase

C. Endonuclease

D. Transferase

Answer: A



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6. Fill the blanks with correct answer(s)/correct the underlined portion of the sentence :

The confirmative test for AIDS is _____ blotting.



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7. Fill the blanks with correct answer(s)/correct the underlined portion of the sentence :

Red data book is published by _____.



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8. Fill the blanks with correct answer(s)/correct the underlined portion of the sentence :

Cerebral Malaria is caused by Plasmodium vivax.



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9. Fill the blanks with correct answer(s)/correct the underlined portion of the sentence :

The preservation of semen at very low temperature is called remediation.



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10. What is National Park?



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11. What are the causes of female infertility?



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12. Mention the causes of drugs addiction?



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13. What is 'Algal bloom'?



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14. List the functions of placenta.



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15. What is Arbor Vitae?



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16. What is linkage? mention its significance.



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17. Write the forensic application of DNA fingerprint.



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18. Differentiate between : Active immunity
and Passive immunity



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19. Difference between: Vasectomy and
Tubectomy



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20. Differentiate between : Spermatogenesis and oogenesis



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21. Differentiate between: Down's syndrome and Turner's syndrome



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22. Describe the structure and functions of human forebrain.



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23. What is sex linked inheritance? Explain taking with examples of colourblindness and haemophilia.



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24. Explain the mechanism of conduction of impulses along nerve fibres.



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25. Write short note on AIDS



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26. Write notes on : Acid rain



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27. Write notes on : Radioactive waste



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28. Write a short note on budding in Hydra.



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29. Kranz anatomy is seen in _____ plants,

A. CAM

B. Submerged

C. C_3

D. C_4

Answer: D



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30. A degenerative process when functional activities of an organism slow down is called_____

A. Seismonasty

B. Nutation

C. Abscission

D. Senescence

Answer: D



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31. The root nodules seen in the leguminous plants have a red pigment called _____

A. Hemoglobin

B. Leghemoglobin

C. phycocyanin

D. Chromoplast

Answer: B



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32. Decomposers are generally_____

A. Green Plants

B. Phytoplanktons

C. Insects

D. Microorganisms

Answer: D



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33. In curd making, is useful in coagulation of milk protein.

A. Penicillium

B. lactobacillus

C. Saccharomyces

D. Aspergillus

Answer: B



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34. Correct the statement of each bit, if necessary, by changing the underlined words only :

Griffith coined the term 'gene' for Mendelian factor.



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35. Correct the statement of each bit, if necessary, by changing the underlined words only :

When sucrose is dissolved in water, its water potential decreases.



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36. Correct the statement of each bit, if necessary, by changing the underlined words only :

An unorganized mass of cells formed during tissue culture is called explant.



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37. In C_4 plants, the first stable product of carbon dioxide fixation in mesophyll cells is 3-PGA.



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38. WRITE SHORT NOTES ON : Ecosystem,



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39. Write note on:

Biofertilizers.



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40. Write a short note on alcoholic fermentation.



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41. Write note on:

Hybridization



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42. Write note on:

Viviparous germination



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43. WRITE SHORT NOTES ON :

Micropropagation



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44. WRITE SHORT NOTES ON: Law of segregation



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45. Split genes



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46. Differentiate between

Phototropism and geotropism



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47. Differentiate between

Micronutrients and Macronutrients



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48. Differentiate between

Cybrid and Hybrid.



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49. Differentiate between

Parasite and Saprophyte



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50. Describe Transcription in Prokaryotes?



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51. Describe the reaction steps of Krebs cycle.



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52. Discuss the cohesion-tension theory of ascent of sap.



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53. Give an account of the physiological effects of auxins in plants.



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