



BIOLOGY

BOOKS - UNITED BOOK HOUSE

CONTINUITY OF LIFE

Exercise

1. The term 'gene' was coined by-

A. Morgan

B. Maclintock

C. Johanssen

D. Watson & Crick

Answer:



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2. The two chromatids of chromosome are united by-

A. Telomere

B. Centromere

C. Pellicle

D. Satellite

Answer:



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3. In RNA, Uracil replaces-

A. Adenine

B. Guanine

C. Cytosine

D. Thymine

Answer:



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4. Chromosomes was first named by-

A. Morgan

B. Watson & Crick

C. W.Waldeyer

D. Mendel

Answer:



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5. Who have constructed three dimensional double helix DNA model?

A. Morgan

B. Watson & Crick

C. W.Waldeyer

D. Mendel

Answer:



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6. What is the Chromosome number in a human somatic cell?

A. One pair

B. 4 pairs

C. 23 pairs

D. 46 pairs

Answer:



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7. According to the position of the centromere, chromosomes are classified into four types.

Which one is mismatched?

A. Acentric

B. Metacentric

C. Submetacentric

D. Telocentric

Answer:



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8. The example of a giant chromosome is-

A. X-chromosome

B. Y chromosome

C. Autosome

D. Lampbrush chromosome

Answer:



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9. Where does Amitosis is not occurred-

A. Chara

B. Hydra

C. Amoeba

D. Yeast

Answer:



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10. Mitosis take place in all the somatic human cells except-

- A. Liver cells
- B. Kidney cells
- C. Nerve cells
- D. S stage

Answer:



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11. Which one is not associated with phases of cell cycle

A. G 1 stage

B. G 2 stage

C. D stage

D. Telophase

Answer:



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12. Spindle fibres are appeared in animal cell during cell division in the stage-

- A. Prophase
- B. Metaphase
- C. Anaphse
- D. Telophase

Answer:



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13. Which of these mitosis cell division the nuclear membrane reappear?

A. Prophase

B. Metaphase

C. Anaphse

D. Telophase

Answer:



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14. In which phase in mitosis the chromosomes reach equatorial region of cells?

A. Prophase

B. Metaphase

C. Anaphse

D. Telophase

Answer:



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15. In which stage of mitosis the chromosomes of V,J,L,I shaped are seen

- A. Prophase
- B. Metaphase
- C. Anaphase
- D. Telophase

Answer:



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16. In which stage of mitosis spindle fibres appear?

- A. Prophase
- B. Metaphase
- C. Anaphase
- D. Telophase

Answer:



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17. The division of cytoplasm is called-

- A. Cytokinesis
- B. Karyokinesis
- C. Amitosis
- D. Mitosis

Answer:



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18. The end part of chromosome is called-

A. Centromere

B. Cromomere

C. Secondary constriction

D. Telomere

Answer:



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19. Cell plates are formed-

A. During formation of spindle fibres

B. During interphase

C. Cytokinesis

D. Karyokinesis

Answer:



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20. In meiosis non-sister chromatid exchange is called-

- A. Synapsis
- B. Bivalent
- C. Chiasma
- D. Crossing over

Answer:



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21. Reproduction through budding are found in animal-

A. Amoeba

B. Euglena

C. Hydra

D. Paramecium

Answer:



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22. External fertilization is found in-

A. Bird

B. Fish

C. Reptile

D. Mammals

Answer:



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23. Reproduction by spores are found in-

A. Mango

B. Rose

C. Fern

D. Yeast

Answer:



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24. Regeneration found in-

A. Planeria

B. Amoeba

C. Euglena

D. Paramecium

Answer:



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25. Bulbils are found-

A. Oxalis

B. Pistia

C. Potato

D. Dioscorea

Answer:



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26. Adventitious buds are found-

A. Mango

B. Bryophyllum

C. Discorea

D. Mentha

Answer:



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27. Clear alternation of generation found in-

A. Mango

B. Rose

C. Fern

D. Volvox

Answer:



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28. A complete flower has-

A. 2 parts

B. 3 parts

C. 4 parts

D. 5 parts

Answer:



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29. Where pollination takes place by wind?

A. Mango

B. Pine

C. Moss

D. Fern

Answer:



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30. The method of sexual reproduction where two identical cell of opposite sexes fuse permanetly is called-

A. Isogamy

B. Anisogamy

C. Syngamy

D. Oogamy

Answer:



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31. The fusion of two gametes is called-

- A. Conjugation
- B. Pollination
- C. Parthenogenesis
- D. Fertilization

Answer:



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32. After fusion of sperm cell and egg cell the new cell is called-

A. Zygospor

B. Zygote

C. Oospore

D. None of this

Answer:



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33. Which part of a flower attract insects-

A. Calyx

B. Corolia

C. Androecium

D. Gynoecium

Answer:



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34. Which one is used to measure plant growth?

A. Arc indicator

B. Lactometer

C. Haemocytometer

D. Growthmeter

Answer:



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35. Adolescence period in man is-

A. 3-11 years old

B. 12-20 years,old

C. 21-30 years old

D. 31-40 years old

Answer:



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36. How many phases of growth in multicellular organism?

A. One

B. Two

C. Three

D. Four

Answer:



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37. Describe the structure of chromosome.



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38. What is sex chromosome and autosome and their number in human body cell? What is chromosome?



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39. Describe the DNA double helix structure with diagram.



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40. Difference between plant and animals cytokinesis. Describe mitotic prophase with suitable picture.



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41. Difference between RNA and DNA. Describe mitotic metaphase with suitable diagram.



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42. Difference between Euchromatin and Heterochromatin. What is the significance of mitotic cell division?



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43. What is cell cycle? Give the importance of cell cycle.



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44. What is tetrad? Give the difference between Mitosis and Meiosis.



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45. Where does Meiosis occur? What is the significance of meiosis?



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46. Difference between asexual and sexual reproduction. What is the importance of

reproduction?



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47. Describe the vegetative propagation in plant. What is the importance of artificial vegetative propagation?



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48. What are the steps of micropropagation.



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49. Name the different parts of a flower and give their importance.



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50. Give three differences of self and cross pollination.



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51. Give the definition of growth. Describe the fertilization of a flowering plant.



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Example

1. What is the full form of DNA?



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2. Write full form of RNA?



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3. What is sat-chromosome?



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4. Write the different main non-genetic RNAs.



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5. Name the proteins present in chromosome?



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6. What is Nucleotide and Nucleoside?



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7. What is amitosis?



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8. What is mitosis?



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9. What is cell cycle?



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10. What is S-phase?



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11. Why mitosis is called equal division?



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12. Where does mitosis cell division occurs?



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13. In which phase of the cell division chromosomes are seen prominent?



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14. Cell plate' is formed during the cell division of which type of cell?



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15. In which type of cell division do the nucleus and cytoplasm divide directly?



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16. Why meiosis cell division is called reduction division?



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17. What is bivalent chromosome?



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18. what is cytokinesis?



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19. What is Karyokinesis?



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20. What is crossing-over?



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21. What is synapsis?



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22. What is chiasma?



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23. What is reproduction?



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24. What is fertilization?



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25. What is vegetative reproduction?



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26. What is conjugation.



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27. What is stock & scion?



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28. Define alternation of generation.



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29. What is pollination?



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30. What is the merits of cross pollination?



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31. Name four types of agents of cross pollination?



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32. Which hormone is used in tissue culture?



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33. Name the phases of human development.



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34. In which stages human sex organ development started?



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35. What is parthenogenesis?



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36. What is parthenocarpy?



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