



BIOLOGY

BOOKS - UNITED BOOK HOUSE

BEGUM ROKEYA SMRITI BALIKA

VIDYALAYA

Exercise

1. Choose the correct pair-

A. Midbrain-control respiratory rate

B. Pons-control of memory and judgment
power

C. Hypothalamus - control of appetite-
thirst and sleep

D. Cerebrum-control of respiration &
urination

Answer:



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2. Which of the following statement is not correct?

A. Nastic movement helps in blooming of flower

B. Stem is sensible with much concentrated Auxin

C. Artificial auxin prevent falls of mango bud

D. Cytokinin reduces the growth of the axial bud

Answer:



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3. Which of the following is innate reflex action?

A. Children sleep in a certain time

B. When someone comes in front of the car, press the brake

C. Salivation for the aroma of meat

D. Poem recitation at the programme in school

Answer:



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4. Which of the following is asexual reproduction?

A. New plant form from the root of orange

B. Spore formation in the sporangium of
fern

C. New plant form from the stem bud of
rose

D. New plant form from the lead bud of
Bryophyllum

Answer:



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5. Which of the following statement is not correct about cell division?

A. In animal cell metaphase chromosomes which are small are placed in the periphery of spindle

B. In amitosis nucleus and cytoplasm split from each other to form two daughter cell

C. In plant cytokinesis, fragmoplast

combines with golgi to form cell plate

D. In meiosis_II homologous chromosomes

come together and join

Answer:



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6. Choose the correct pair from the following-

A. Animophily flower-Foliage and hydrilla

B. Hydrophily-Madar & Shimul

C. Entomophily-Sunflower & Mango.

D. Ornithophily-Maize & Joar

Answer:



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7. Write how many offsprings are there in the

F_2 generation of Mendel's dihybrid cross from

BbRr genotype-

A. 1

B. 2

C. 3

D. 4

Answer:



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8. If a woman is colour blind then which is correct?

A. Woman's mother is colour blind

B. Woman's father is colour blind

C. Woman's mother is colour blind but
father is normal

D. Woman's mother & father both are
colour blind

Answer:



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9. Choose which data regarding Mendel's monohybrid cross is not correct?

A. This is a dominant & recessive feature of hybridization

B. Produced organis in F_2 generation (recessive) is 25%

C. Phenotypical ratio in F_2 generation is 1:2:1

D. This hybridization can not explain the independent assortment law

Answer:



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10. Identify which two organs are Analogous organ?

A. Phylloclade-Rhizome

B. Tendril of pea and passiflora

C. Potato tuber and bulbils of Dioscorea

D. Sweet potato and round potato

Answer:



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11. Which of the following is not the prove comparative embryology-

A. Similarity in the internal struture of heart

B. external gill slits

C. Internal double gill sac

D. Myotome muscle

Answer:



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12. Identify which simple organic compound is synthesized in Miller & Urey's experiment?

A. Pycimidine

B. Glycine

C. Nucleic acid

D. Nucleotide

Answer:



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13. Identify the microbe that transfer N_2 to the environment from soil-

A. Pseudomonas

B. Nitrosomonus

C. Rhizobium

D. Bacillus

Answer:



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14. When you look forward to victoria Memorial, you find that its brightness is reduced- What is its possible reason?

A. Global warming

B. Excess use of pesticide

C. Acid rain

D. Arsenic pollution

Answer:



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15. Identify which data is not correct about JFM?

- A. Government of India recognized
manageent
- B. Beginning in the Arawari forest in West
Midnapore
- C. Only established to restore the shal
forest
- D.

Answer:



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16. Moving of body part from the central line of body to the outside is the function of _____ muscle.



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17. _____ is extinct in the telophase of animal mitosis.



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18. In hybridization experiment new generation form parental generation is called _____



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19. Interaction between two difference spesies for food and habitat is called _____.



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20. Preserved sperm and ovum bank in cold at San-Diego in America is the example of_____.



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21. Eutrophication happen if the _____compound of detergent mix with water.



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22. Adrenaline increase heart rate and blood pressure but lowering cardiac output. Why?



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23. State True or false: DNA generate RNA but RNA cannot generate DNA.



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24. Joint pinna and roller tongue are the hereditary characters. True or false



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25. Merychippus is the middle fossil in between Meshippus and Pliohippus in the horse evolution.;true or false



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26. Bronchitis is caused by pesticides, weedicides and radioactive substances.



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27. Match the words in column A with those which are most appropriate in column B and re-write the correct pairing mentioning the

serial no. of both column:

Column A	Column B
2.13 Gibberelin	(a) Float in a particular water level
2.14 Increase in amount of DNA from 2C to 4C	(b) Endosperm
2.15 Deposition of iron due to blood circulation repeatedly	(c) Biodiversity lose due to poaching
2.16 Hydrolic organ present in Rohu fish	(d) Continuation of pure characters
2.17 Crocodile skin and peacock feather collection	(e) Synthesis phase
2.18 Vegetative reproduction	(f) Germinating baby plant
	(g) Thalassemia



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28. Choose the odd one and write it: Olfactory, Optic, Facial, Auditory.



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29. Name the bone joint in between head of femur and acetabulum of pelvic girdle.



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30. Given below a pair of related terms. Write suitable word in the gap of second pair, following the relationship in the first pair.

Phragmoplast: Plant cytokinesis:: _____:
animal cytokinesis?



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31. What is cross pollination?



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32. Ry, Rg, WY and Wg gamets are originate from which genotype?



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33. What is mutation?





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34. Among the following four terms three include the other one. Find out that term and write it.

Sanctuary, In-situ conservation, National park, Biosphere reserve.



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35. Lothian island of Sundarban is famous for which animal conservation?



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36. Write which of the following functions are controlled by CNS?

Urination, blinking of eye if dust enter into it, Feelings of hot and cold, Vomiting and Salivation.



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37. What are the 4 types of spinal reflexes.





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38. Animals locomotion take place for their selection of proper mate and for self defence-
Explain with example.



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39. Discuss two physiological role of a hormone which is synthesized in hypothalamus and stored in neurohypophysis.



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40. Differentiate euchromatin and heterochromatin based on crossing over and pigmentation.



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41. Write down the change in the structure of nucleus based on dehydration of nucleus and water re-absorption in mitotic cell division.



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42. Explain how small piece from the root, stem and leaf of plant can develop into adult plant.



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43. Show with a cross how the phenotypical and genotypical ratio become same in F_2 generation of Mendel's monohybrid cross?



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44. Explain the possibility of haemophilic son and daughter if a carrier female marry a normal male.



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45. Explain with a cross possibility of birth of male child if a mother wish so after giving birth three female simultaneously.



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46. Discuss the struggle of elephant for jack of food in the jungle and presence of railway track in the pathway of them in north Bengal.



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47. Name vestigeal organ that present in human sensory organ ad in colocasia plant.



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48. Analyze how fish can float in a particular depth of water and can move in various water level.



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49. Name two bacteria who can transform N_2 from complex dead organic matter into NO_3 salt and NO_3 salt from soil to N_2 gas in nature.



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50. Explain pollution in water is one of the major issues due to excessive demand of food in human.



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51. Evaluate the harmful effect of regularly smoking cigarettes and bidi in human life.



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52. Draw a neat diagram of the cross section of human eye ball and label of following parts- Iris, Suspensory Ligament, Aqueous humour , Coroid



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53. Draw the neat diagram of the eukaryotic chromosome and label the following parts- Kinetochrone, Telomere, Chromomere, NOR.



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54. Explain the role of microtubule in cytokinesis in cell division. Discuss the role of Synaptonimal complex and non sister chromatid of tetrad in meiosis cell division.



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55. Discuss fertilization process and female gamet production in the sexual reproduction of flowering plant. Show with a chart - alternation of generation in fern.



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56. Write in a chart - The dominant and recessive characters of seed and flower of pea plant in Mendel's experiment. Explain with a cross how a normal parent give birth to a thalassemic child.



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57. According to Mendel what do you mean by dominant and recessive character in

monohybrid cross? Evaluate how genetic counselling can help a man to take right decision before and after marriage.



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58. According to Haeckel 'Ontogeny repeats Phylogeny' - Judge the accuracy of the statement. How and why did the snake's ancestor's feet disappear? Explain by following the theory of Lamarck.



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59. Write down the adaptive importance of the following organ or behavioural character-

Waggle dance



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60. Write down the adaptive importance of the following organ or behavioural character-

Salt gland of Sundari



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61. Write down the adaptive importance of the following organ or behavioural character-

RBC of Camel



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62. Write down the adaptive importance of the following organ or behavioural character-

Leaf of Cactus



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63. Write down the adaptive importance of the following organ or behavioural character-

Air sac of pigeon.



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64. Humans are the cause of various oxides of nitrogen in the environment'-Judge the logic of the statement. Explain how high frequency sound harm hearing capacity and heart in human.



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65. What will be the effect in environment if bird and snake are extinct from Earth?



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66. Discuss three main causes about the disappearance of Sikkim's state animal.



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67. Explain how overexploitation of exotic species effect biodiversity?



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