



BIOLOGY

BOOKS - UNITED BOOK HOUSE

MODEL PAPER 2019

Exercise

1. Select which of the following statement is correct related to tropic movement-

- A. It is controlled by the intensity of the stimulus
- B. Overall change of place takes place by a plant or part of the plant
- C. This movement is observed in the algae called Volvox
- D. It is an induced movement of curvature controlled by the direction of stimulus.

Answer:



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2. Read the following sentences and identify the sentence which is not correct

A. FSH,LH and Prolactin are different types of GTH

B. Adrenaline decreases cardiac output

C. Insulin facilitates the absorption of glucose into the cell through cell membrane

D. Progesterone helps in the formation of placenta in female body.

Answer:



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3. The number of cranial nerves are:

A. 10 Pairs

B. 31 Pairs

C. 12 Pairs

D. 21 Pairs

Answer:



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4. Identify the correct feature of Amitosis cell division-

A. Occurs in germ mother cell of sexually reproducing organism.

B. It is called indirect cell division

C. Chromosome and Spindle fibre are formed

D. Chromosome and Spindle fibre are not formed.

Answer:



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5. Determine which of the following statement is correct regarding the significance of meiosis-

- A. 1.It result in overall growth and development of body
- B. 2.It results in the growth of reproductive organs and embryo of the organism
- C. 3.It produce haploid gamete containing hereditary variations
- D. 4.It regenerates the organ in the body of some animals if it is lost.

Answer:



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6. Select the correct pair and write it-

A. Multiple fission-Hydra

B. Fragmentation-Spirogyra

C. Regeneration-Fern

D. Budding-Planaria.

Answer:



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7. Identify which of the following is a dominant trait-

- A. Length of the stem-Dwarf
- B. Shape of the seed-Wrinkled
- C. Colour of the cotyledon-Yellow
- D. Colour of the flower-White.

Answer:



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8. Assess how many types of gametes are produced from the pea plant having the genotype RRYY-

A. One type

B. Four types

C. Two types

D. Three types

Answer:



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9. Select which of the following two genotypes are responsible for the expression of the phenotype wrinkled yellow in pea plant-

A. RRYy and rryy

B. RRYy and RrYy

C. Rryy and Rryy

D. rrYY and rrYy.

Answer:



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10. Identify which of the following indicated inter specific struggle-

- A. Struggle among the members of guppy fish for feeding on mosquito larvae
- B. Struggle between snakes and owls for capturing rat for eating
- C. Struggle within a group of deer of feeding on grass at the same location

D. Struggle between tigers in a jungle for preying on deer.

Answer:



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11. Determine the term related to the theory of Lamarck-

A. Struggle for existence

B. Origin of variation

C. Inheritance of acquired characters

D. Natural selection.

Answer:



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12. Choose the animal who performed communication through specific dancing pattern regarding the source of food-

A. Chimpanzee

B. Cockroach

C. Peacock

D. Honeybee

Answer:



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13. Decide which of the following if remains for a long time in the environment, the probability of its biomagnification increases-

A. 1.Newspaper

B. 2.Faecal matters of animals

C. 3.Rotten leaves

D. 4.Chlorinated insecticide.

Answer:



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14. Gorumara, Corbett,Kulik, Nandadevi-
choose the correct sequence from the

following which is correct for the above forests in sequence-

A. Biosphere Reserve, Sanctuary, National Park

B. National Park, National Park, Biosphere Reserve, Sanctuary

C. National Park, National Park, Sanctuary, Biosphere Reserve

D. Sanctuary, Biosphere Reserve, National Park, Sanctuary.

Answer:



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15. If the amount of pollen grains, fungal spores and dust particles increase suddenly in the air, decide which of the following problems may increase-

A. 1.Tuberculosis

B. 2.Asthma

C. 3.Malaria

D. 4.Dengue.

Answer:



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16. By the influence of _____ hormone the hairs on the skin get erected at emergency situation.



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17. Chromosome is the condensed coiled structure of _____molecule.



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18. The sexual reproduction that occurs among two genotypically different organisms belonging to the same species, is called_____



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19. _____ was the aggregate of some large colloidal molecules during the early phase of origin of life.



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20. _____ is derived from the root of Sarpagandha plant which is used as medicine for lowering high blood pressure.



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21. The ex situ conservation by keeping sample seeds, in liquid nitrogen at a temperature of $-196^{\circ}C$ is called _____.



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22. Decide whether the following statements are true or false

Dilute urine is profusely eliminated by a person affected with Diabetes Insipidus.



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23. Decide whether the following statements are true or false

The Carpel of flowering plants collect pollen grains with the help of hairy and sticky style.



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24. Decide whether the following statements are true or false

A pair of sex determining sex chromosomes are present in the ovum of human.



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25. Decide whether the following statements are true or false

According to Darwin organisms reproduce at geometric ratio.



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26. Decide whether the following statements are true or false

One-horned rhinoceros is conserved at Manas National Park of West Bengal.



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27. Decide whether the following statements are true or false

Acetylcholine and adrenaline neurotransmitters.



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28. Choose the odd one and write it:
Glossopharyngeal, Oculomotor, Trigeminal,
Oxytocin.



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29. What is the function of the fluid present in the intermediate chamber between lens and retina of the eyeball?



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30. A pair of related terms is given below. On the basis of the relationship in the first pair write the suitable word in the gap of second pair.

Grafting: Mango:: _____ : China Rose.



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31. What is the cause of expression of haemophilia disease only at homozygous condition?



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32. Write the genotypic ratio obtained at 2nd filial generation in the monohybrid experiment done by Mendel.



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33. Which type of evolution is indicated by homologous organs?



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34. Among the following four terms one includes the other three. Find it out and write it: Pesticides used in Agriculture, Typhoid, Water pollution, liquid wastes from factories.



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35. In which type of in situ conservation practice, the diversity, culture and lifestyle of human is preserved along with microorganisms, wild animals and wild plants?



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36. Illustrate with the help of a word diagram the nervous pathway of the way you will open the door by hearing the door bell.



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37. State the locations of Meninges and CSF.



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38. What is the function of Gibberellin.



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39. Write the names of the different refractive mediums of eyeball in proper sequence.



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40. During the meiosis cell division, reduction in the number of chromosomes and exchange

of segments between chromatids take place-
Analyse what are the significances of these
two phenomena.



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41. Distinguish between asexual and sexual
reproduction on the basis of following
features:

Number of Parents



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42. Distinguish between asexual and sexual reproduction on the basis of following features:

Nature of offspring



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43. Identify the stages of Karyokinesis of mitotic cell division depending on the following features:

Alignment of chromosomes along the equator

of the cell and their arrangement in a definite pattern



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44. Identify the stages of Karyokinesis of mitotic cell division depending on the following features:

Disintegration of spindles fibres



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45. Identify the stage of Karyokinesis of mitotic cell division depending on the following features:

Disappearance of nuclear membrane and nucleolus



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46. Identify the stages of Karyokinesis of mitotic cell division depending on the following features:

Movement of daughter chromosome to the opposite poles of cell



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47. To establish the law of segregation in case of Pea plants, you are asked to select characters. Write two such characters having opposite traits.



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48. a woman with colour blind disease who married a colour blind man. What would be the probability of expression of colour blindness in that girls child? Analyse your answer.



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49. Write the name of two genetic disease which are expressed in human populations.



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50. Tigers are extinct but there are many deer in the jungle. A few tigers are brought from another sanctuary and released in such a jungle. Imagine and Write the names of different kinds of struggle for existence those tigers have to be involved in.



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51. Describe any two adaptations in Sundari plant for tolerance of salt.



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52. Explain how do the chimpanzees hunt termites for food.



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53. List the harmful effects of the following pollutant:

Greenhouse gas



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54. List the harmful effects of the following pollutant:

SPM



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55. List the harmful effects of the following pollutant:

Chemical fertilizers used in agriculture



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56. List the harmful effects of the following pollutant:

Non-biodegradable chemical insecticide



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57. Give one example of exotic species causing damage of local biodiversities in aquatic ecosystem.



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58. Write the in situ conservation measures taken for one endangered reptile species and name one site of such conservation in West Bengal.



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59. "Poaching is one of the fundamental causes of endangeredness of animal diversity in India"-Assess four causes for which animals are poached in India.



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60. Draw a neat diagram of a neurone and label the following parts:

Dendron, Node of Ranvier, Myelin sheath, Schwann cell.



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61. Draw a neat diagram of anaphase of mitosis of an animal cell and label the following parts:

Polar region, Spindle fibre, Chromatid ,
Centromere.



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