



BIOLOGY

BOOKS - UNITED BOOK HOUSE

MODEL PAPER 2019



1. Select which of the following statement is

correct related to tropic movement-

A. It is controlled by the intesity of the

stimulus

B. Overall hange 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:



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

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-

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:

6. Select the correct pair and write it-

A. Multiple fission-Hydra

B. Fragmentation-Spirogyra

C. Regeneration-Fern

D. Budding-Planaria.

Answer:

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:

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:

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:

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

A. Struggle among the members of guppy fish for feeding on mosquito larvae B. Struggle between snakes and owls for capturing rast 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 existance

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, Nandadevichoose 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:



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

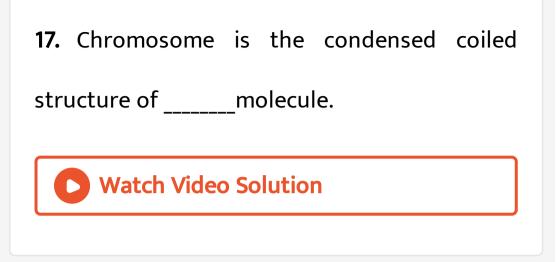
C. 3.Malaria

D. 4.Dengue.

Answer:

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



18. The sexual reproduction that occurs among

wo genotypi	ally different	organisms
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belonging to the same species, is

called_____

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

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.



24. Decide whether the following statements

are true or false

A pair of sex determining sex chromosomes

are present in the ovum of human.



25. Decide whether the following statements are true or falseAccording to Darwin organisms reproduce at geometric ratio.

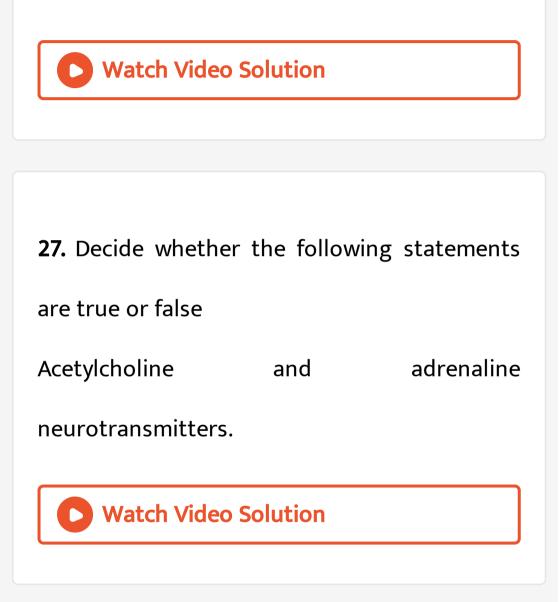
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26. Decide whether the following statements

are true or false

One-horned rhioceros is conserved at Manas

National Park of West Bengal.



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



29. What is the function of the fluid present in

the intermediate chamber between lens and

retina of the eyeball?



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?

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?

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?



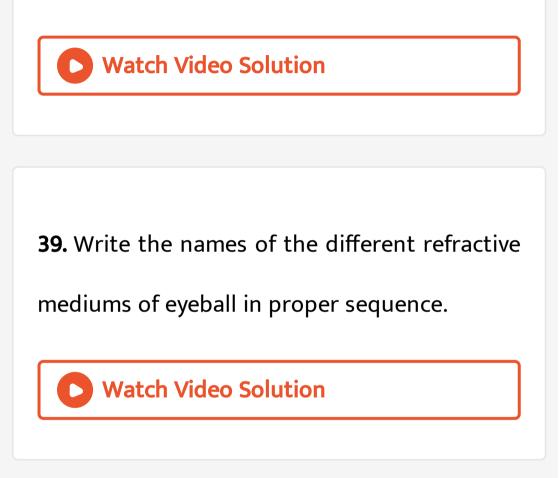


36. Illustrate with the help of a word diagram the nervous pathway of the way you will open the door by hearing the door bell.

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37. State the locations of Meninges and CSF.

38. What is the function of Gibberellin.



40. During the meiosis cell division, reduction in the number of chormosomes 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

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



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

Disintegration of spindles fibres

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

oppsoite poles of cell



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.

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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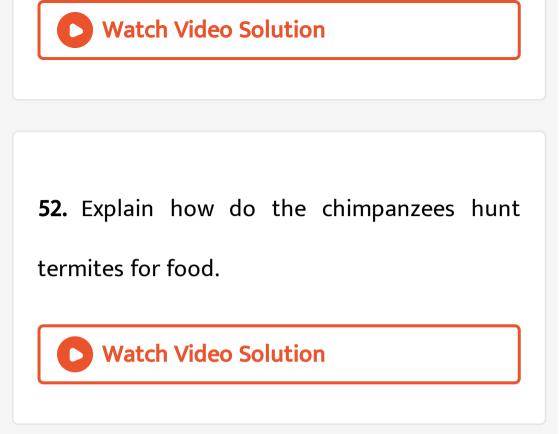
49. Write the name of two genetic disease

which are expressed in human populations.

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

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



53. List the harmful effects of the following pollutant:

Greenhouse gas

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

56. List the harmful effects of the following pollutant:

Non-biodegradable chemical insecticide



57. Give one example of exotic species causing

damage of local biodiversities in aquatic

ecosystem.



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



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.



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:

Centromere.

