



BIOLOGY

BOOKS - UNITED BOOK HOUSE

BEGUM ROKEYA SMRITI BALIKA VIDYALAYA



1. Choose the correct pair-

A. Midbrain-control repiratory rate B. Pons-control of memory and judgent power C. Hypothalamus - control of appetitethirst and sleep D. Cerebrum-control of respiration & urination

Answer:

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:



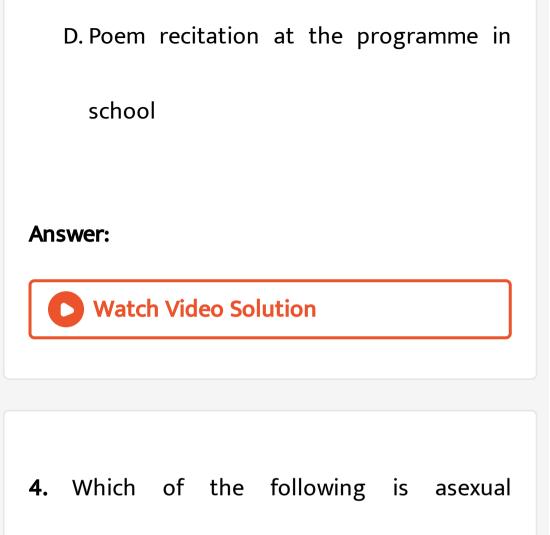
3. Which of te follwing is innate reflex action?

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



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:

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

A. In animal cell metaphase chromosmes

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 corss from

BbRr genotype-

A. 1

B. 2

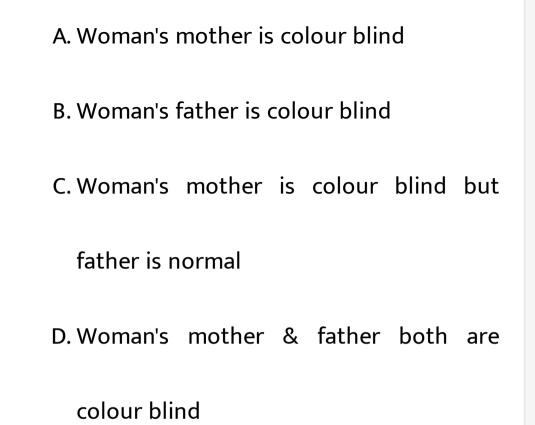
C. 3

D. 4

Answer:

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



Answer:

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:



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:



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. Glycene

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?

manageent

B. Beginning in the Arawari forest in West

Midnapore

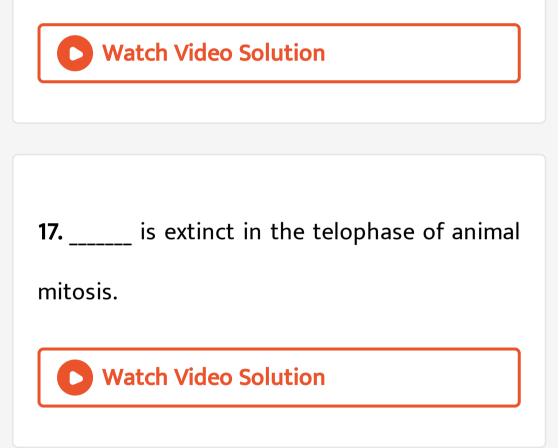
C. Only established to restore the shal

forest

D.

Answer:

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



18.	In	hybridiza	ation	exp	periment	ne	ew	
gene	ratior	ı form	paren	tal	generatio	n	is	
called								
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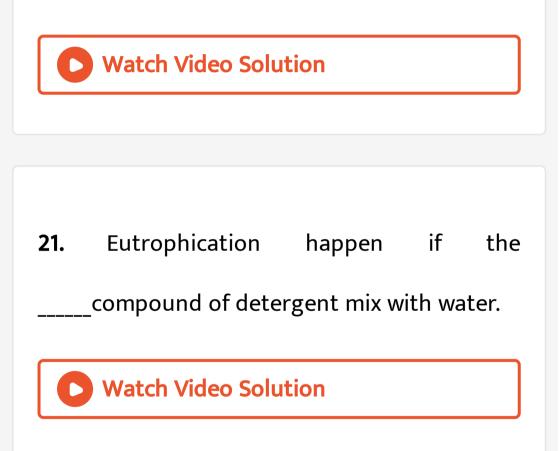
19. Interaction between two difference speces

for food and habitat is called____.



20. Preserved sperm and ovum bank in cold at

Sun-Diago in America is the example of_____.



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.

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 Mesophippus and Pliohippus in the horse evolution.;true or false

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	(b) Endosperm		
from 2C to 4C			
2.15 Deposition of iron due to	(c) Biodiversity lose due to		
blood circulation repeatedly	poaching		
2.16 Hydrolic organ present in Rohu fish	(d) Continuation of pure characters		
2.17 Crocodile skin and peacock	(e) Synthesis phase		
feather collection's	· · ·		
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.

29. Name the bone joint in between head of

femur and acetabulam 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?

31. What is cross pollination?



32. Ry, Rg, WY and Wg gamets are originate

from which genotype?

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33. What is mutation?



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

Sanctuary, In-situ conservation, National park,

Bioshpere reserve.

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



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, Vomating and Salivation.



37. What are the 4 types of spinal reflexes.





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.

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-absorbation in mitotic cell division.

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?

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



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

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.



47. Name vestigeal organ that present in

human sensory organ ad in colocasia plant.



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



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.

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



51. Evaluate the harmful effect of regularly

smoking cigarettes and bidi in human life.

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

Coroid



53. Draw the neat diagram of the eukaryotic

chromosome and label the following parts-

Kinetochrone, Telomere, Chromomere, NOR.



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.

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



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 feel disappear? Explain by following the theory of Lamarck.

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

61. Write down the adaptive importance of the

following organ or behavioural character-

RBC of Camel



62. Write down the adaptive importance of the

following organ or behavioural character-

Leaf of Cactus

63. Write down the adaptive importance of the

following organ or behavioural character-

Air sac of pigeon.



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.



65. What will be the effect in environment if

bird and snake are extinct from Earth?



66. Discuss three main causes about the

disappearance of Sikkim's state animal.

67. Explain how overexploitation of exotic

species effect biodiversity?