



BIOLOGY

BOOKS - UNITED BOOK HOUSE

MODEL PAPER 2018



1. The leaft tentacles of sundew plant bents and hold when it get contact to a insect(protein). Is is an example of-

- A. Seismonasty
- B. Thermonasty
- C. Photonasty
- D. Chemonasty



2. In case of woman, the Follicle Stimulating

Hormone stimulates the Graffian Follicle of the

Ovary to secreate the hormone, is-

A. TSH

B. ADH

C. Oestrogen

D. ACTH

Answer:

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3. Which one of the following is the correct

reflex arc?

A. Receptor \rightarrow Effector \rightarrow Efferent
nerve $ ightarrow$ Nerve Centre $ ightarrow$ Afferent
nerve
B. Nerve Centre $\ o$ Receptor $\ o$ Afferent
nerve $ ightarrow$ Effector $ ightarrow$ Efferent nerve
C. Efferent nerve $ ightarrow$ Receptor $ ightarrow$
Afferent nerve $ ightarrow$ Nerve Centre $ ightarrow$
Effector
D. Receptor $\ ightarrow$ Afferent nerve $\ ightarrow$ Nerve
Centre $ ightarrow$ Efferent nerve $ ightarrow$ Effector.



4. In which stage of mitosis celld division, the nuclear membrane and nucleous are seen to diaappear-

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5. Which of the following is not a structural

component of DNA -

A. Deoxyribose sugar

B. Uracil base

C. Thymine base

D. Phosphoric Acid.

Answer:

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6. Which one of the follwing statement is correct regarding sexual reproduction-

A. Halploid gamete fromation is eesential in sexual reproduction B. Sexual reproduction depends only on mitosis C. In sexual reproduction offsprings could be produced from a single parental organism D. The offsprings produced in sexual

reproduction are genetically identical

with parental organism



7. Which one of the following is the genotypic ratio at F_2 generation of Mendel's monohybrid cross-A. 1: 2: 1

B.3:1

C.9:3:3:1

D. 2:1:2



8. Which one of the following is not controlled

by the autosomal gene of human-

A. 1.Roller tongue

B. 2.Haemophilia

C. 3. Thalassaemia

D. 4.Attached ear lobe.



9. Select what would be the genotypic ration of F_2 generation of a monohybrid cross in case of incomplete dominance-

A. 3:1

B. 2:1:1

C.9:3:3:1

D. 1:2:1



10. Which of the followig changes did not occur during the course of evolution of horse-

A. Lengthening of limbs

B. Increase in the length and thickness of

all digits in limbs.

C. Increase in the length and thickness of

only the third digit in limbs

D. Increase in size of the whole body.

Answer:

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11. According to the opinion of the scientists the prebiotic environment of the earth that led to the origin of the life was likje-

A. Hot dilute soup in th sea water

B. Cold dilute soup in the sea water

C. Cold dilute soup in the river water

D. Hot dilute soup in the ground water.

Answer:

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12. Which one of the following micrboes take

part in nitrification-

- A. 1.Nitrosomonas
- B. 2. Azotobacter
- C. 3.pseudomonas
- D. 4. Thiobacillus.



13. An example of Ex-situ conservation is-

A. Sunderban Tiger Reserve

B. Corbet National Park

C. Nilgiri Biosphere Reserve

D. Cryopreservation,

Answer:

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14. Which of the following effect is the result

of water pollution-

A. 1.Global warming

B. 2. Eutrophication

C. 3.Deafness

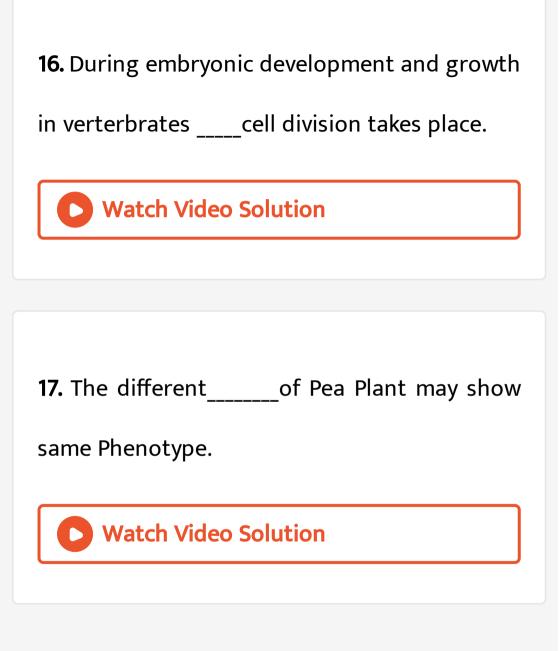
D. 4.Bronchitis

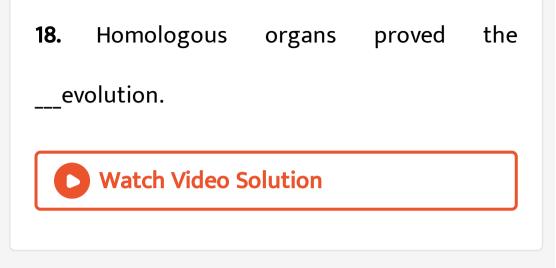
Answer:

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15. Due to deficiency of Iodine, the synthesis of

hormone is hampered.





19. The name of one exotic species that affects

the local biodiversity is _____.

20. The fine d roplets os smokes, ashes, dusts,

pollen grains etc, suspended in air collectively

called____which cause various lung disease.



21. Decide whether the following statements

are true or false

Hypothalamus helps to maintain body balance

in human.



22. Decide whether the following statement are true or false:

In DNA, Adenine is linked with Guanine by hydrogen bonds.

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23. Decide whether the following statementsare true or falseIn his monohybrid cross experiment, Mendel

obtained 75% pure tall pea plants in the first

filial generation.



24. Decide whether the following statement are true or false:

In Lamarck's opinion, organisms can acquire

any particular inheritable physical trait

acording to their need.

25. Decide whether the following statement are true or false:

Acid arin is caused by SO_2 and NO_2 gases

fromed due to air pollution.

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26. Decide whether the following statements

are true or false

Auxin helps the seeds to germinate by

breaking off dormancy.

27. Choose the odd one and write it.

Dwarfish, Goiter, Thalassaemia, Diabetes Mellitus.

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28. What is the function of lens of eye?

29. 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.

mitosis: Radicle:___: Spore Mother cell.

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30. In case of guineaping whether the phenotype of the two genotype bbRR and bbRr is same?



31. Write the phenotypic ratio obtaioned in the F_2 generation of Mendel's Dihybrid cross experiment?

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32. Mention on physiological feature of Sundari plant to deal with the strong salinity of water,.

33. Among the following four terms one includes the other three. Find out that term and write is: Overall knowledge regarding local biological

resource, PBR, Traditional belief regarding local biological resource, Sustainable use of

local biological resource.

34. Name one endangered animal conserved

at Singalila National Park.

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35. If the following incidents happen in daily life, there are some reflex takes place. Write two importances of this reflex.

When a foreign object enters the nose.

36. If the following incidents happen in daily

life, there are some reflex takes place. Write

two importances of this reflex.

When a foreign object enters the nose.



37. For correction of which defects in vision of

eye spectacles of convex and concave lenses

are useD?

38. List the names of the hormones related to

following function :

Regulation of sugar level in blood



39. List the names of the hormones related to

following function :

Stimulation for the secretion of hormones

from the Thyroid gland



40. List the names of the hormones related to following function :

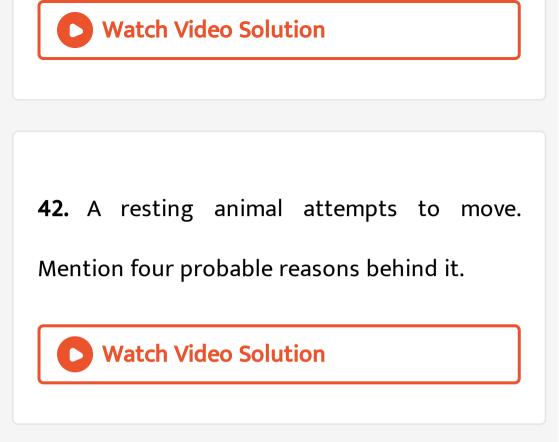
Causing the growth of Corpus Luteum and stimulating the secretion of Progesterone hormone in the female body

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41. List the names of the hormones related to

following function :

Incresing blood pressure due to anxiety



43. Distinguish between autosome and sex chromosome of human based on the following feature:

Nature





44. Distinguish between autosome and sex chromosome of human based on the following feature:

Number

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45. What are the processes of asexual reproduction in Spirogyra and Planaria?

46. Mention two changes related to vision and

bones at late adulthood or scenescene phase

of human development.

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47. With the help of a cross show how the sex

of the child is determined in human being.

48. One day students read an article in newspaper on Thalassemia and were very scared to know the fate of a thalassemic patient. Write what kind of measures they can take to eradicate this disease from the population.

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49. What gametes are produced from a hybrid

yellow and round seeded pea plant (YyRr).



50. Example of the vestigeal organs of human. Discuss two adaptive importance of air sac in pigeon.

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51. Write the names of one each vestigeal organ present in Vertebral column and Alimentary canal in human body.

52. Write in chronological sequences the names of four main fossil ancestors during the course of evolution of the horse.

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53. "Nitrogen cycle is affected dur to human

activities"- State two phenomena to justify it.

54. What would be the environmental consequences as results of recurrent destruction of wetlands and depletion of quantity of agricultural lands?
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55. What are the harmful impacts sound pollution can exert on the ears and heart in human body?

56. Write down the role of biodiversity for the

following-

Production of food



57. Write down the role of biodiversity for the

following-

Preparation of medicine.

58. Draw a neat diagram of reflex arc and label

the following parts:

Receptor, Sensory nerve, Nerve centre, Motor

nerve.



59. Draw a neat diagram of human eukaryotic

chromosome and lebel of the following parts-

Chromatid, Centromere, Telomere, Nucleoler

organizer.

