



# BIOLOGY

**BOOKS - UNITED BOOK HOUSE**

## **MARY IMMACUALTE GIRLS SCHOOL PAPER**

### **Exercise**

**1. Which pair of the following is incorrect-**

A. Photonasty-Lotus

B. Thermonasty-Tulip

C. Seismonasty-Mimosa plant

D. Chemonasty-Sunflower

**Answer:**



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2. Which is not a structural characteristics of axon-

A. Nissl's granule

B. Schwann cell

C. Myelin sheath

D. Node of Ranvier

**Answer:**



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**3. Which of the following is not a mixed nerve-**

A. Hypoglossal

B. Glossopharyngeal

C. Facial

D. Vagus

**Answer:**



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**4.** Identify the part of chromosome related to aging and cancer-

A. 1.NOR

B. 2.Centromere

C. 3.Satellite

D. 4.Telomere

**Answer:**



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5. Identify the phase of mitosis in which the chromosomes are clearly calculated-

A. Metaphase

B. Telophase

C. Anaphase

D. Prophase

**Answer:**



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**6.** Identity the longest and shortest phase of mitosis-

A. Metaphase, Telophase

B. Anaphase, Prophase

C. Prophase, Telophase

D. Prophase, Anaphase

**Answer:**



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7. The phenotype ratio of the dihybrid cross-

A. 1:9:3:1

B. 9:1:1:1

C. 9:3:3:1

D. 9:1:3:1

**Answer:**



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8. Which of the following is 'X' linked character-

A. 1. Thalassemia

B. 2. Presence of hair in men's ear lobe



C. 3.Eye colour

D. 4.Hemophilia

**Answer:**



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**9. What is the phenotype and genotype ratio for incomplete dominance-**

A. 0.042384259259259

B. 0.084039351851852

C. 0.04306712962963

D. 0.042372685185185

**Answer:**



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**10.** Which pair of the following is correct-

A. Natural selection-Lamarck

B. Natural selection-Darwin

C. Natural selection-Haldane

## D. Natural selection-Oparm

**Answer:**



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**11.** Approximately how many years ago life was created on earth-

A. 4.6 billion

B. 6 billion

C. 2 billion

D. 3.8 billion

**Answer:**



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**12.** Which of the following is the actual preliminary state of cell-

A. Coacervate

B. Lipid molecule

C. Protein molecule

D. Hot liquid soup

**Answer:**



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**13.** Which of the following is not related to smuggling-

A. 1.Skin

B. 2.Lung

C. 3.Horn

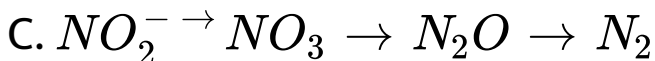
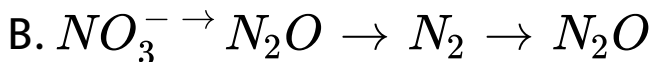
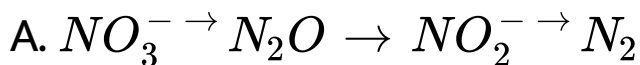
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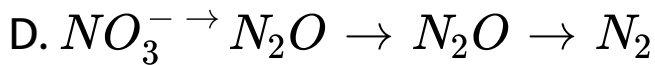
**Answer:**



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**14.** Which of the following is the actual sequence of denitrification-





**Answer:**



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**15.** Which of the following is not SPM-

A. CFC

B. Metallic compounds

C. Dust particles

D. Various carbon particles

**Answer:**



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16. \_\_\_\_\_ gland is an example of effector.



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17. Due to \_\_\_\_\_ a large number of disease free plants can be created in short time.



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**18.** Fused ear lobe is \_\_\_\_\_ carrying recessive character.



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**19.** Salt glands are seen in the leaves of \_\_\_\_\_ tree for salt intake.



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**20.** Infection of respiratory track is called\_\_\_\_\_.



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21. \_\_\_\_\_ is an exotic fish species.



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

Vasopressin controls the reabsorption of water and blood pressure in renal tubule.



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**23.** Decide whether the following statement are true or false:

Outgrowth is seen in one or more parts of hydra.



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

Deformities in production of hemoglobin is seen in thalassemia.



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

Staminode of Lantana is vestigial form of pistil.



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**26.** Decide whether the following statement are true or false:

Global warming occurs due to the disruption of nitrogen cycle.



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**27.** Decide whether the following statement are true or false:

Poaching of pangolins takes place for its skin.



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**28.** What is different Testosterone, Estrogen, Progesterone, Insulin.



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**29.** What are the similarities between TSH, FSH, LH?



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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.

Spore formation : Fungus: : \_\_\_\_\_ : Spirogyra.



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**31.** Name the disease where you think genetic counselling is needed.



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**32.** Find the relation between this two ratio-  
3:1 and 1:2:1.



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**33.** What happens in the way of evolution?



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**34.** Between the following four, three of them  
are related to each other. Find and re-write-



Acid rain, Ozone hole, Air pollution, Global warming.



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**35.** Give an example of ex-situ conservation.



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**36.** Describe in details about the feedback control and hormone regulations.



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**37.** What plant growth hormones are used in agriculture and horticulture.



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**38.** Explain the role of various muscles in human locomotion.



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**39.** Explain how accommodation occurs to car drivers.



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**40.** Explain the role of mitosis in compensation and regeneration.



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**41.** Explain the budding of hydra.



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**42.** Write down the differences between DNA and RNA based on the following points-

No. of helix



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**43.** Write down the differences between DNA and RNA based on the following points-

Presence of carbohydrate





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**44.** Write down the differences between DNA and RNA based on the following points-  
Presence of base.



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**45.** How the result of incomplete dominance is published? Explain.



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**46.** Write down the role of genetic counselling in prevention of genetic disease.



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**47.** Give an example of two X linked disease.



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**48.** Explain the evolution of horse using word diagram.



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**49.** State an example of analogous organ.



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**50.** Give one example of chimpanzee's problem solving skills.



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**51.** Explain the role of microbes in nitrogen fixation.



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**52.** Give proper explanation how humans are polluting the soil.



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**53.** Establish the relationship of air pollution and livelihood with lung disease.



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**54.** Explain with appropriate example what marks emerge in case of biodiversity if degradation of ecosystem occurs.



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**55.** Draw a neat diagram of the cross-section of human eyeball and label of the following parts-

Choroid, Aqueous humor, Retina, Blind spot.



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**56.** Draw a neat diagram of the morphology of eukaryotic chromosome and label the following parts-

Chromatid, Primary constriction, NOR, Telomere.



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57. Write different stages of micropropagation through a word diagram.



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58. Name of the organism for each that reproduces through budding and

fragmentation. Write three differences between sexual and asexual reproduction.



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**59.** Show the cross of the hybrid tall pea tree and a pure short pea tree using checker board. Write the law of segregation by Mendel.



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**60.** For some families, mother is responsible for girl child'. Explain using a cross that the statement is wrong. Write two causes of Mendel's success for his experiment.



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**61.** Explain shortly about bio-chemical theory of 'Origin of Life,'.



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**62.** Write down the differences based on function between the scales of onion and thorns of cactus.



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**63.** Make a list of endangered biodiversity of eastern himalayn hotspot.



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**64.** Write down the effects of sound pollution on human health. Prove the accuracy of the statement-"Pollution decreases the plant biodiversity.



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**65.** Build on imaginary map of degradation of biodiversity.



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**66.** Write two differences between In-situ and Ex-situ conservation. Explain how JFM contributes to the recovery of destroyed forest.



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