

NTSE

IMPORTANT QUESTIONS BIOLOGY



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1. F_1 particle or oxysome is present in:

- (a) Endoplasmic reticulum
- (b) Chloroplast
- (c) Mitochondria
- (d) Golgi complex

Ans. (c) Mitochondria

2. If the ribosomes of a cell are destroyed then

- (a) Respiration will not take place.
- (b) Fats will not be formed.
- (c) Proteins will not be formed.
- (d) Carbon assimilation will not occur.

Ans: (c) Proteins will not be formed

Description: Ribosomes in a cell are mainly concerned with protein synthesis. In case of absence of ribosomes, no proteins will be formed.

3. The muscle which work throughout life without undergoing fatigue is:

- (a) straight muscle
- (b) non-striated muscle
- (c) cardiac muscle
- (d) all of the above

Ans: (c) cardiac muscle

Description: Cardiac muscle (also called heart muscle or myocardium) is an involuntary, striated muscle that constitutes the main tissue of the walls of the heart. They show rhythmic contraction & relaxation throughout the life without undergoing the fatigue.

4. Which of the following are characteristic features of cells of meristematic tissues?

- (a) Actively dividing cells with dense cytoplasm, thick cell wall and prominent nuclei
- (b) Actively dividing cells with dense cytoplasm, thin cell wall and no vacuoles
- (c) Actively dividing cells with little cytoplasm, thin cell wall and prominent nuclei
- (d) Actively dividing cells with thin cytoplasm, thin cell wall and no vacuoles

Ans: (b) Actively dividing cells with dense cytoplasm, thin cell wall and no vacuoles

Description: Meristematic tissues are found in zones of the plant where growth can take place. They give rise to various organs of a plant & are responsible for growth.

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5. Which one of the following statements about certain given animals is correct?

- (a) Flatworms (Platyhelminthes) are coelomates.
- (b) Round worms (Aschelminthes) are pseudocoelomates.
- (c) Molluscs are pseudocoelomates.
- (d) Insects are pseudocoelomates.

Ans: (b) Round worms (Aschelminthes) are pseudocoelomates

Description: The body cavity of phylum Aschelminthes is called pseudocoelom. It is filled with pseudocoelomic fluid. The body cavity is not lined by the mesodermal layer.

6. Which one of the following belongs to vascular cryptogams?

- (a) Bryophyta
- (b) Pteridophyta
- (c) Gymnosperms
- (d) Angiosperms

Ans: (b) Pteridophyta

Description: Vascular cryptogams are the cryptogamic plants (as a fern) that have a vascular system.

7. Rotation of crops is essential for:

- (a) getting different kinds of crops
- (b) increasing quality of mineral
- (c) increasing fertility of soil
- (d) increasing quality of proteins

Ans: (c) increasing fertility of soil

Description: Crop rotation maintains balance of nutrients.

8. Dr. V. Kurien is famous for :

- (a) Green revolution
- (b) White revolution
- (c) Yellow revolution
- (d) Blue revolution

Ans: (b) White revolution

Description: Verghese Kurien, known as the 'Father of the White Revolution' in India, was a social entrepreneur who gave "billion-litre idea", Operation Flood – the world's largest agricultural dairy development programme.

9. It is said, the Taj Mahal may be destroyed due to :

- (a) Flood in Yamuna river
- (b) Decomposition of marble as a result of high temperature
- (c) Air pollutants released from oil refinery of Mathura
- (d) All of the above

Ans: (c) Air pollutants released from oil refinery of Mathura

Description: Air pollutants (sulphur dioxide) released from oil refinery of Mathura, reacts with water molecules and forms sulphuric acid. This sulphuric acid in turn gets precipitated through acid-rain.

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M. Pareek

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NTSE Scholar
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10. BOD is connected with:

- (a) Organic matter (b) Microbes
(c) Microbes and organic matter (d) None of the above

Ans: (c) Microbes and organic matter

Description: BOD (Biological oxygen demand) is the amount of dissolved O₂ in water bodies needed by aquatic organisms.

11. A certain patient is suspected to be suffering from Acquired Immuno Deficiency Syndrome. Which diagnostic technique will you recommend for its detection?

- (a) ELISA (b) Australian antigen (c) HIV test (d) None of these

Ans: (a) ELISA

Description: ELISA is the Enzyme linked immunosorbent assay. It is a test done against AIDS.

12. A healthy person is one who is free from:

- (a) disease (b) mental tension
(c) disease and mental tension (d) bacteria

Ans: (c) disease and mental tension

Description: A person is said to be healthy if one is free from all diseases as well as mentally balanced.

13. Gas excreted by plants during night time

- (a) CO (b) Carbon dioxide (c) Oxygen (d) Nitrogen Oxide

Ans: (b) Carbon dioxide

Description: At night, photosynthesis doesn't occur, only respiration takes place. So, the end product of respiration i.e., Carbon dioxide is majorly released at night.

14. At high altitude, RBCs of human blood will

- (a) Increase in number
(b) Decrease in number
(c) Increase in size
(d) Decrease in size

Ans: (a) Increase in number

Description: At high altitudes, due to thin air, availability of oxygen is low. To compensate for the decrease in oxygen, the production of more red blood cells occur to aid in oxygen delivery to the muscles.

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15. Wildlife is :

- (a) All biota excluding man, domestic animals and cultivated crops
- (b) All vertebrates of reserve forests
- (c) All animals of reserve forests
- (d) All animals and plant of reserve forest

Ans: (a) All biota excluding man, domestic animals and cultivated crops

Description: Wildlife refers to the animals and other living things that live in the wild areas.

16. Amrita Devi Bishnoi National Award is rendered for:

- (a) Water conservation
- (b) Wildlife conservation
- (c) Soil conservation
- (d) None of these

Ans: (b) Wildlife conservation

Description: Amrita Devi Bishnoi Award is given for significant contribution in the field of wildlife protection.

The award has been instituted by the government of India as to remember the contribution of Amrita Devi & her other conservatives for the conservation of Khejri tree from being cut.

17. Genes are not found in pairs in:

- (a) Sperm cell
- (b) Fertilized egg
- (c) Muscles
- (d) Epithelial cell

Ans: (a) Sperm cell

Description: Sperm cells are male gametes and these have half number of genes compared to diploid cell.

18. Purines of RNA are represented by

- (a) Uracil and Thymine
- (b) Guanine and Adenine
- (c) Uracil and Cytosine
- (d) Thymine and Cytosine

Ans: (b) Guanine and Adenine

Description: Purines in RNA are Adenine & Guanine. Pyrimidines in RNA are Uracil & Cytosine.

19. Onset of menstrual cycle in females is known as:

- (a) Menopause
- (b) Menostart
- (c) Menarche
- (d) Menstrarch

Ans: (c) Menarche

Description: Menarche defines the onset of menstruation. It is the beginning of menstruation in human females. It occurs at the age of 9-11 years.

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20. Which of the following constitute a pistil?

- (a) Stigma, anther and ovary
- (b) Stigma, stamen and ovary
- (c) Pollen sac, style and ovule
- (d) Stigma, style and ovary

Ans: (d) Stigma, style and ovary

Description: The pistil, also known as carpel, is the female reproductive part of a flower. It consists of stigma, style & ovary. The pistils are collectively known as gynoecium.

21. Which of these hormone regulates milk ejection?

- (a) Prolactin
- (b) Vasopressin
- (c) Oxytocin
- (d) Luteinizing hormone

Ans: (c) Oxytocin

Description: Oxytocin is hormone released by hypothalamus that controls the ejection of milk from mammary glands in females.

Prolactin controls the secretion of milk by mammary glands.

Vasopressin regulates the ionic balance of the body.

Luteinizing hormone stimulates the gonads to produce sex hormones.

22. Apical dominance means :

- (a) Suppression of growth of apical bud by axillary buds
- (b) Suppression of growth of axillary buds by the presence of apical bud
- (c) Stimulation of growth of axillary buds by removal of apical bud
- (d) Inhibition of growth of axillary buds by removal of apical bud

Ans: (b) Suppression of growth of axillary buds by the presence of apical bud

Description: Apical dominance is the phenomenon where the main, central stem of the plant is dominant over other side stems. This is performed mainly by the auxin.

23. What cannot be added in a composting pit to prepare compost?

- (a) Sunflower plants
- (b) Fruit and vegetable peels
- (c) Plastic flower
- (d) Red worms

Ans: (c) Plastic flower

Description: Plastic is non biodegradable.

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24. Ecology is the study of relationship between:
- | | |
|---------------------------|-------------------------------|
| (a) Water and environment | (b) Organisms and environment |
| (c) Solid and water | (d) All of the above |

Ans: (b) Organisms and environment

Description: Ecology is the study of the relationship between living organisms, including humans, and their physical environment; it seeks to understand the vital connections between plants and animals and the world around them.

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