
Section-A

Que:1 Choose the correct answer :---

1. Flowering Hormone for vernalization : [colchicine, Auxilic acid, Florigen, vernalin]
2. The specific character of mangrove plants is :
[vivipary, heterospory, apospory, parthenocarp]
3. The drug obtained from Atropa belladonna is used for :
[Gastric ulcer, obstruction of eye, constipation, leprosy]
4. Which of the following elements is considered as short term nutrients : [Mg, Ca, Zn, P]
5. Blood bank in human body is : [spleen, lungs, heart, liver]

Que:2 Fill in the blanks :----

1. _____ Hormone is used for ripening fruits .
2. Population theory was proposed by _____
3. Formation of antibodies takes place in _____
4. Doors of House swell up in the rainy season due to _____
5. A type of _____ joint which only occurs in the skull.

Que:3 Write answer in one word :---

1. Name the human made insulin made by genetic engineering.
2. Write full name of 2, 4 - D
3. Give scientific name of lac insect.
4. Where is Purkinje fibers located in Human ?
5. Give Botanical name of coconut ?

Que:4 Match the following :----

- | | |
|------------------------|------------------------|
| Tubectomy | - apical dominance. |
| Decrease in death rate | - hunger & thirst |
| Auxin | - population control |
| Ratanjot | - population explosion |
| Hypothalamus | - Bio fuel |

Section – B

Que 5 to 8 carries 2 marks each

- Que:5 Write two economic importance of vernalization ? "Or"
Villi are present in intestine but absent in stomach, why ?
- Que:6 Write two importance of phytochrome in plants ? "Or"
Give two practical importance of cytokinin ?
- Que:7 Give two difference between epigeal and Hypogeal germination ? "Or"
What is tidal volume ?
- Que:8 Write two difference between short day plant and long day plants ? "Or"
What is radio active pollution ? write names of its sources ?

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Que: 9 to 12 carries 3 marks each

- Que:9 What do you mean by threatened species ? "Or"
Discuss an Amniosentesis technique ?
- Que:10 What are T cells ? "Or" Write three factors that affect transpiration ?
- Que:11 What do you understand by respiratory quotient ? (R.Q) "Or"
What is fermentation ? Write two significance of fermentation ?
- Que:12 What is known as Bio-pesticides write two disadvantages of Bio-pesticides? "Or"
What is cancer ? write its types ?

Que 13 to 17 carries 4 marks each

- Que:13 Draw a well labeled diagram of 1.5 of human eye. Give the function of Retina. "Or"
Describe double fertilization and write significance of it. ?
- Que:14 What is tissue culture ? describe its importance ? "Or"
Describe working mechanism of human heart ?
- Que:15 Describe calvin cycle with ray diagram ? "Or"
Give brief description of the factors affecting photosynthesis ?
- Que:16 What do you understand by Human population. Give the factors affecting it ?
"Or" Describe the role of liver in excretion
- Que:17 What are antibiotics ? How does antibiotic resistance develop in Bacteria ? "Or"
Explain four adaptation of Xerophyte. https://www.mpboardonline.com

Que 18 to 20 carries 5 marks each

- Que:18 Explain starch - sugar inter conversion Hypothesis of stomatal opening and closing with diagram ?_ "Or"
Describe internal structure of Human ear with example ?
- Que:19 What is Respiration ? Differentiate between aerobic and anaerobic respiration ?
"Or" What is Glycolysis ? Give its various steps ?
- Que:20 What do you mean by Aminotelism, uricotelism and uricotelism ? "Or"
What is self pollination and cross pollination Give advantages and disadvantages ?
