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**Max Time : 1 hr** **Class = 11th Biology Test Max Marks : 30**

**Topic: Morphology in Flowering Plants**

1. Multiple choice questions : [ 1 X 5 = 5]
2. Root developed from parts of the plant other than radicle is called :

|  |  |  |  |
| --- | --- | --- | --- |
| a) Tap root | b) Fibrous root | c) Adventitious root | d) Nodular roots |

1. Venation is a term used to describe the pattern of arrangement of

|  |  |
| --- | --- |
| a) Floral organs | b) Flower in inflorescence |
| c) Veins and veinlets in lamina | d) All of them |

1. The ovary is half inferior in :

|  |  |  |  |
| --- | --- | --- | --- |
| a) Mustard | b) Sunflower | c) Plum | d) Brinjal |

1. In some plants thalamus contributes to fruit formation. Such fruit are termed as :

|  |  |
| --- | --- |
| a) Aggregate fruit | b) True fruit |
| c) Parthenocarpic fruit | d) False fruit |

1. Diadelphous stamens are found in :

|  |  |  |  |
| --- | --- | --- | --- |
| a) China rose | b) Citrus | c) Brinjal | d) Pea |

1. Differentiate endospermic and non-endospermic seeds with one example each. **[ 1 ]**
2. Sterile stamen is called as \_\_\_\_\_\_\_\_\_\_. **[ 1 ]**
3. Define nodes and internodes. **[ 1 ]**
4. Single cotyledon present in monocot is called as \_\_\_\_\_\_\_\_\_\_\_\_. **[ 1 ]**
5. Write floral formula of an actinomorphic , bisexual hypogynous flower with 5 united sepals , five free petals , five free stamens and two united carpel with superior ovary and axile placentation. **[ 1 ]**
6. Write economic importance and floral formula of Solanaceae family. **[ 2 ]**
7. Explain with suitable examples the different types of Phyllotaxy. **[ 2 ]**
8. Define the term Inflorescence. Explain the basis for the different types of inflorescence in flowering plants. **[ 2 ]**
9. Differentiate between the following : **[ 2 ]**

(a) Plumule and radicle (b) Actinomorphic & Zygomorphic symmetry

1. Explain different regions of roots with the help of diagram. **[ 3 ]**
2. Describe the arrangement of floral members in relation to their insertion on thalamus. **[ 3 ]**
3. What is a flower? Describe the parts of a typical angiospermic plant. **[ 3 ]**
4. How do Aerial stem modifications helps plants? **[ 3 ]**