**MASTERS PRE-UNIVERSITY COLLEGE, HASSAN 573201.**

**Subject: BIOLOGY Morphology of Flowering plants**

1. **Tap (primary) root is descending axis that develops from**

a)radicle b)hypocotyl c)epicotyl d)radical

1. **Root pockets act as balancers and found in**

a)hygrophytes b)free floating hydrophytes c)fixed floating hydrophytes d)all the above

1. **Pneumatophores are common in halophytes of saline swampy soil of sea shores for**

a)respiration b)guttation c)both a and b d)vivipary.

1. **Bulb of Allium cepa (onion) is**

a)underground modified bud with reduced discoid stem and without adventitious roots

b)underground shoot with reduced stem and fleshy leaves.

c)both a and b correct.

d)underground root.

1. **A nongreen stem branch that grows obliquely or sometimes grows horizontally inside the soil and then comes out of the soil as a brach is called**

a)stolon b)sucker c)offset d)rhizome

1. **Phylloclade is found**

a)Opuntia, casuarina, Euphorbia b)Only cacti c)Cacti, Asparagus d)Opuntia and Ruscus

1. **Choose the correct statement.**

a)Phylloclade is stem and phyllode is petiole.

b)Phyllode has nodes and internodes and bears flowers

c)phylloclade bears bud in its axil.

d)Phyllode is never vertical in position.

1. **The phyllotaxy in which two leaves arise from a bud at each node is**

a)Whorled b)alternate c)opposite d)none of these.

1. **Formation of phyllode in Australian Acacia is a mechanism to**

a)Protect plant from browsing animals b)reduce rate of transpiration

c)increase rate of photosynthesis d)all are correct.

1. **In cacti, leaves are modified into**

a)hooks b)phylloclade c)spines d)thorns.

1. **When petiole bears leaflets at its tip, it is a**

a)simple leaf b)pinnate compound leaf c)palmate compound leaf d)isobilateral leaf.

1. **Inflorescence is**

a)arrangement of flowers on peduncle/floral axis b)a system of branches bearing flowers

c)a branch bearing flowers in definite manner d)all the above**.**

1. **If a flower exhibits bilateral symmetry only i.e., symmetry of one plane, it is called**

a)actinomorphic b)zgomorphic c)asymmetrical d)dimorphic

1. **Monoadelphous term is used to indicate**

a)anthers fused in a single group b)filaments fused in a single group

c)both anthers and filaments fused in a single group d) only one whorl of stamens in a flower.

1. **A single longitudinal placenta along the wall of ovary represents**

a)marginal placentation b)parietal placentation

c)free central placentation d)superficial placentation

1. **What type of placentation is seen in sweet pea?**

a)Free central b)Marginal c)Basal d)Axile

1. **Adhesion in flower is**

a)union of dissimilar parts b)union of similar parts

c)aggregation of similar parts d)aggregation of disimilar parts.

1. **The embryo axis is called**

a)plumule b)epicotyl c)hypocotyl d)tigellum

1. **Read the following matches**

|  |  |  |
| --- | --- | --- |
| **Family** | **Androecium** | **Fruit** |
| **i.Solanaceae** | **Stamens six, epitepalous** | **Bery or capsule** |
| **ii.Fabaceae** | **Ten stamens, diadephous Stamens six, 3+3** | **Legume** |
| **iii.Lilliaceae** | **Stamens six, 3+3** | **Capsule or berry.** |

Find out the correct matches

a)i and ii b)ii and iii c)ii only d)All are correct.

1. **Go through the following matches regarding the flower**

**i.Mustard -Epigynous**

**ii.Plum -Perigynous**

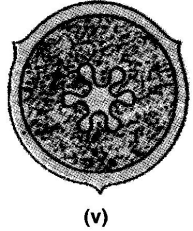
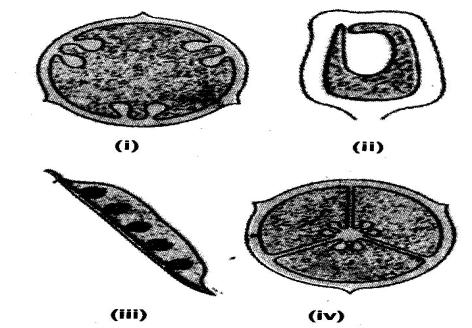
**iii.Hibiscus -Epigynous**

**iv.Peach - Perigynous**

**Which of these are correct?**

a)ii,iii and iv b)ii and iv c)iii and iv d)i,iii and iv

1. **Go through the following figures depicting types of placentation**

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**Choose the option which correctly tells the placentation in order.**

a)Parietal: Axile;Marginal;Basal; Freecentral b)Free central:Marginal;Basal; Axile;Parietal

c)Parietal;Basal; Marginal; Axile; Free central d)Axile;Basal; Marginal;Freecentral; Parietal.

1. **Stem is most reduced in**

a)Phylloclade b)Bulb c)Corm d)Rhizome.

1. **In Agave, bulbil is a modification of**

a)vegetative bud b)Cauline bud c)Terminal bud d)Floral bud.

1. **The ovary in hypogynous flowers is said to be**

a)Half inferior b)Inferior c)Superior d)None of the above.

1. **Read the following matched regarding the placentation**
2. **Argemone -Axile**
3. **China rose -Free central**
4. **Lemon -Axile**
5. **Mustard -Parietal.**

**Which of these are correct?**

a)i,ii and iii b)ii and iii and iv c)ii and iv d)iii and iv.

1. **An example of axile placentation is**

a)Lemon b)Marigold c)Argemone d)Dianthus.

1. **The petiole modified into leaf like structure is known as**

a)Phylloclade b)Phyllode c)Cladode d)Cladophyll.

1. **Which one of the following is a xerophytic plant in which the stem is modified into the flat green and succulent structure?**

a)Opuntia b)Casuarina c)Hydrilla d)Acacia.

1. **Keel is characteristic of the flowers of**

a)Bean b)Gulmohur c)Cassia d)Calotropis

1. **Flowers are unisexual in**

a)Pea b)Cucumber c)china rose d)Onion.

**MORPHOLOGY OF FLOWERING PLANTS KEY**

|  |  |  |  |
| --- | --- | --- | --- |
| **Sl.no** | Key answer | **Sl.no** | Key answer |
| **1** | 1 | **16** | 2 |
| **2** | 2 | **17** | 1 |
| **3** | 1 | **18** | 4 |
| **4** | 2 | **19** | 2 |
| **5** | 2 | **20** | 2 |
| **6** | 1 | **21** | 3 |
| **7** | 1 | **22** | 2 |
| **8** | 3 | **23** | 4 |
| **9** | 2 | **24** | 3 |
| **10** | 3 | **25** | 4 |
| **11** | 3 | **26** | 1 |
| **12** | 4 | **27** | 2 |
| **13** | 2 | **28** | 1 |
| **14** | 2 | **29** | 1 |
| **15** | 1 | **30** | 2 |