1) Roots developed from parts of the plant other than radicle are called
   (a) tap roots  (b) fibrous roots  (c) adventitious roots  (d) all of them

2) Which of the following is not correct?
   (a) In maize, roots arise from the based of stem  (b) In bryophyllum and roots arise from leaf
   (c) Carrot (daucus caroto) have napiform root
   (d) Mangroves(e.g. Rhizophora) have respiratory roots(pneumatophores)

3) Stem tendril is not present in
   (a) passion flower(passiflora)  (b) grapevine(vitis)  (c) ground nut(Arachis hypogea)
   (d) lemon(citrus)

4) Study the following and choose the correct statements. I. Bulb of allium cepa is a modified stem. II. Cloves of allium sativum are fleshy scale leaves. III. Corm of colocasia is a modified root. IV. Tendril in vitis vinifera is a modified axillary bud.
   (a) I and II  (b) II and IV  (c) II and III  (d) I and IV

5) The leaf less stem of onion, which is produced to bear flower is called
   (a) thalamus  (b) scape  (c) torus  (d) pedicel

6) Cabbage(brassica oleracea var. capitata) is the
   (a) largest flower  (b) largest fruit  (c) largest bud  (d) largest ovule

7) Edible part of cauliflower is
   (a) bud  (b) inflorescence  (c) flower  (d) fruit
8) Which of the following represents the edible part of the fruit of litchi?

(a) Pericarp   (b) Mesocarp   (c) juicy aril   (d) Endocarp

9) Non-endospermic or exalbuminous seeds are present in

(a) gram   (b) pea   (c) sem   (d) all of these

10) Tegmen develops from

(a) funiculus   (b) chalaza   (c) inner integument   (d) outer integument

11) **Assertion** Ginger has a prostrate growing rhizome. **Reason** Shoot growth is not effected by gravity

(a) if both assertion and reason are true and reason is the correct explanation of assertion

(b) if both assertion and reason are true, but reason is not the correct explanation of assertion.

(c) if assertion is true, but reason is false   (d) if both assertion and reason are false

12) match the following columns.

<table>
<thead>
<tr>
<th>Column I</th>
<th>Column II</th>
</tr>
</thead>
<tbody>
<tr>
<td>A.Unilocular ovary</td>
<td>1. Asphodelus</td>
</tr>
<tr>
<td>B.Trilocular ovary</td>
<td>2. Pulvinus</td>
</tr>
<tr>
<td>C.Leaf base</td>
<td>3. Mesopodium</td>
</tr>
<tr>
<td>D.Petiole</td>
<td>4. Hyposodium</td>
</tr>
<tr>
<td>5. Pea</td>
<td></td>
</tr>
</tbody>
</table>

(a) ABCD  (b) AB  (c) ABCD  (d) ABCD

1234  4521  5143  2315

13) match the following columns

<table>
<thead>
<tr>
<th>Column I</th>
<th>Column II</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. Aleurone layer</td>
<td>1. without fertilization</td>
</tr>
<tr>
<td>B. Parthenocarpic fruit</td>
<td>2. nutrition</td>
</tr>
<tr>
<td>C. Ovule</td>
<td>3. double fertilization</td>
</tr>
<tr>
<td>D. Endosperm</td>
<td>4. seed</td>
</tr>
</tbody>
</table>

(a) ABCD  (b) ABCD  (c) ABCD  (d) ABCD

1234  2143  4213  2412
14) An example of edible underground stem is
   (a) carrot  (b) groundnut  (c) sweet potato  (d) potato

15) Which one of the following statements is correct?
   (a) Seeds or orchids have oil-rich endosperm  (b) placentation in primrose is bascal
   (c) flower of tulip is a modified shoot  (d) in tomato the fruit is a capsule

16) Jussiaea is characterised by the possession of
   (a) epiphytic roots  (b) climbing roots  (c) sucking roots  (d) spongy floating respiratory roots

17) Identify the correctly matched pair.
   (a) Unifoliate compound leaf - Citrus  (b) Opposite phyllotaxy - Hibiscus
   (c) Palmate convergent venation - Musa  (d) Bipinnate leaf - Mustard

18) Root thorns characteristically occur in
   (a) Asparagus  (b) Zizyphus  (c) Acanthorhiza  (d) Moringa

19) Which one of the following corms is used as a vegetable?
   (a) Gladiolus  (b) Amorphophallus (zamikand)  (c) Colchicum (meadow saffron)
   (d) Crocus (kesar)

20) A leaf that possess more than one prominent vein is called
   (a) unicostate  (b) multicostate  (c) pinnate  (d) palmate

21) The most common type of compound leaves occurring in nature are
   (a) bipinnate  (b) tripinnate  (c) trifoliate  (d) decompound

22) Pedicellate bisexual flowers borne acropetally on an elongated peduncle form an inflorescence called
   (a) spike  (b) corymb  (c) raceme  (d) catkin

23) An inflorescence having a flattened axis, sessile flowers and a whorl of involucral bracts is
   (a) umbel  (b) head  (c) raceme  (d) corymb
24) In sunflower (capitulum inflorescence), ray florets are
   (a) bisexual   (b) unisexual   (c) asexual   (d) None of these

25) Inflorescence with unbranched axis is called
   (a) compound racemose   (b) compound corymb   (c) simple racemose   (d) verticillaster

26) In helicoid cyme, the lateral flowers arise
   (a) on the same side   (b) on alternate   (c) in all the directions   (d) from a common point

27) Buttress roots are found in
   (a) Sorghum   (b) Banyan   (c) Terminalia   (d) Pandanus

28) Which of the following does not match?
   (a) Ficus - Climbing root   (b) Stilt root - Zea mays   (c) Buttress root - Bombax
   (d) Piper - Climbing root

29) Axillary bud is modified into a tendril in
   (a) Duranta   (b) Smilax   (c) Polygonum   (d) Passiflora

30) Match the correctly matched pair of palmate compound leaf type.
    (a) Multifoliate - Cleome   (b) Bifoliate - Oxalis   (c) Quadrifoliate - Bombax
    (d) Unifoliate - Marsilea

31) Identify the incorrectly matched pair relating to the part of leaf modified into spine with the example of the plant.
    (a) Margin of lamina - Argemone   (b) Apex of lamina - Phoenix   (c) Stipules - Acacia
    (d) Margin and apex of lamina - Aloe

32) Wings are the expansion of pericarp in the fruits of which set of following plants?
    (a) Holoptelia, Shorea robusta and Hiptage   (b) Hiptage, Dodonaea and Holoptelia
    (c) Dodonaea, Pinus and Holoptelia   (d) Hiptage, Holopetelia and Pinus
33) Identify the false statement.
   (a) Stem bear leaves  (b) Water and mineral conduction occurs through stem
   (c) Asparagus, contains 1 or 2 internodal branches
   (d) Axillary buds, exogenously grow from axillary leaves

34) Identify the correctly matched pair.
   (a) Unifoliate compound leaf - Citrus  (b) Opposite phyllotaxy - Hibiscus
   (c) Palmate convergent venation - Musa  (d) Bipinnate leaf - Mustard

35) The largest stigma and style occurs in
   (a) Achyrantus  (b) Zea mays  (c) Cleome viscosa  (d) Cycas

36) Polyphyllous petaloid perianth occurs in
   (a) Gloriosa  (b) Festuca  (c) Polyanthes  (d) Crinum

37) The aestivation of corolla in pea (Pisum sativum) is
   (a) quincuncial  (b) contorted  (c) ascending imbricate  (d) descending imbricate

38) An additional floral whorl is present in Hibiscus rosa-sinensis. This whorl is called
   (a) involucre  (b) spathy  (c) epicalyx  (d) calyx

39) Sometimes, the thalamus projects into the ovary and the carpels remain attached on it. This structure is called
   (a) carpophore  (b) anthophore  (c) thalamophore  (d) gynophore

40) If the gynoecium is present in the topmost position of the thalamus, the flower is referred to us
   (a) hypogynous  (b) perigynous  (c) epigynous  (d) none of these

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