



**SAIVA BHANU KSHATRIYA COLLEGE**  
(Aruppukottai Nadargal Uravinmurai Pothu Abi Viruthi Trustuku Pathiyapattathu)

**ARUPPUKOTTAI**  
**QUESTION BANK**

Name of the Department :	Botany	UG / PG :	UG
Semester (UG - III & V; PG - III) :	V III B.Sc (Zoology)	Subject Code :	SBYJA31
Name of the Subject :	Ancillary Botany -Taxonomy & Embryology of Angiosperms and Medical Botany		

**Section A (Multiple Choice Questions)**

**Unit I: (Plant Morphology & Classification)**

1. An example for Phylogenetic System of Classification is  
a) Linnaeus            b) Bentham            c) Hutchinson            d) Engler
2. The female part of Angiosperm is  
a) Calyx            b) Androecium            c) Stamen            d) Gynoecium
3. After fertilization, the ovule develops into  
a) Fruit            b) Seed            c) Embryo            d) Pericarp
4. Stamens are Synandrous in  
a) Cucurbitaceae            b) Euphorbiaceae            c) Malvaceae            d) Asteraceae
5. Respiratory Roots are reported in  
a) Asparagus            b) Vanda            c) Avicennia            d) Tamarindus

**Unit II: (Plant Taxonomy -Annonaceae, Rutaceae and Caesalpiniaceae)**

1. The Fruits of Annonaceae is  
a) Simple            b) Dry            c) Multiple            d) Aggregate
2. Filaments are Hooded in  
a) Annonaceae            b) Rutaceae            c) Caesalpiniaceae            d) Poaceae
3. The common name of Citrus maxima is  
a) Pamblimas            b) Sathukudi            c) Narthai            d) Lime
4. Caesalpiniaceae is Popularly known as  
a) Cassia Family            b) Lily Family            c) Citrus Family            d) Grass Family
5. Staminodes are reported in  
a) *Cassia*            b) *Delonix*            c) *Saraca*            d) *Caesalpinia*



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**Unit III: (Plant Taxonomy - Asclepiadaceae, Lamiaceae, Euphorbiaceae and Poaceae)**

1. The Pitcher Plant of Asclepiadaceae member is
  - a) *Rylea cinerea*
  - b) *Pogostemon heyneanus*
  - b) *Dischidia rafflesiana*
  - d) *Deamia extensa*
2. Staminal Corona is reported in
  - a) *Calotropis*
  - b) *Cryptostegia*
  - c) *Anisomeles*
  - d) *Colebrookea*
3. The Family Asclepiadaceae belongs to the Order
  - a) Ebenales
  - b) Gentianales
  - c) Geraniales
  - d) Campanales
4. The Lemon Grass Oil is extracted from
  - a) *Ruta graveolens*
  - b) *Lavandula angustifolia*
  - c) *Mentha arvensis*
  - d) *Cymbapogon citratus*
5. The Phyllotaxy is Distichous in
  - a) Euphorbiaceae
  - b) Poaceae
  - c) Lamiaceae
  - d) Asclepiadaceae

**Unit IV: (Medicinal Botany)**

1. The Active Principle of *Aegle marmelos* is
  - a) *Gloriosine*
  - b) *Azadirachtin*
  - c) *Marmelosin*
  - d) *Marmalade*
2. The Colchicine is obtained from
  - a) *Azadirachta*
  - b) *Phyllanthus*
  - c) *Gloriosa*
  - d) *Ocimum*
3. The Basil Plant is
  - a) *Coleus amboinicus*
  - b) *Leucas aspera*
  - c) *Pogostemon heyneanus*
  - d) *Ocimum sanctum*
4. The *Coriandrum* belongs to the Family
  - a) Apiaceae
  - b) Euphorbiaceae
  - c) Rutaceae
  - d) Lamiaceae
5. The Study about Drugs is
  - a) Pharmacognosy
  - b) Pharmacognology
  - c) Medicinal Botany
  - d) Pharmacy



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**Unit V: (Embryology)**

1. In monocot embryo, the Scutellum is
  - a) Radicle
  - b) Embryonic Axis
  - c) Plumule
  - d) Cotyledon
2. The Nutritive Tissue of Ovule is
  - a) Micropyle
  - b) Chalaza
  - c) Nucellus
  - d) Integument
3. The erect Ovule is
  - a) Anatropous
  - b) Amphitropous
  - c) Orthotropous
  - d) Circinotropous
4. The Pollens are
  - a) Diploid
  - b) Tetraploid
  - c) Triploid
  - d) Haploid
5. The Archesporial Cell is directly act as Megaspore Mother Cell in
  - a) Tenuinucellate Megasporogenesis
  - b) Microsporogenesis
  - c) Crassinucellate Megasporogenesis
  - d) Megasporogenesis

**Section B (7 mark Questions)**

**Unit I: (Plant Morphology & Classification)**

1. Explain the types of aerial modifications of Stem.
2. What is Schizocarpic Fruits? Explain the types.
3. Define Phyllotaxy. Explain the types with suitable examples.
4. Give an account on Aestivation.
5. List out the merits and demerits of Bentham and Hooker's System of Classification

**Unit II: (Plant Taxonomy -Annonaceae, Rutaceae and Caesalpiniaceae)**

1. List out the General Characters of Annonaceae.
2. Describe the Vegetative Characters of Rutaceae in Technical Terms.
3. Point out the Distinguish Characters of Rutaceae.
4. Enumerate the economic importance of the family Caesalpiniaceae.
5. Describe the plant *Caesalpinia* sp. in Technical Terms.



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**Unit III: (Plant Taxonomy - Asclepiadaceae, Lamiaceae, Euphorbiaceae and Poaceae)**

1. Point Out the General Characters of the Family Lamiaceae.
2. Describe the Structure of Spikelet of Poaceae.
3. Write an Economic Importance of the Family Euphorbiaceae.
4. Describe the Floral Characters of *Calotropis sp.*
5. Describe the structure of Cyathium of Euphorbiaceae.

**Unit IV: (Medicinal Botany)**

1. Write short note on Medicinal Plants.
2. Give an account on medicinal value of *Gloriosa superba*.
3. Write about the systematic position and curative properties of Stone Breaker.
4. Give an account on morphology and medicinal uses of *Coriandrum sativum*.
5. Write about the medicinal value and methods of usage of Neem

**Unit V: (Embryology)**

1. Describe the Structure of Ovule.
2. Describe the development of Male Gametophyte.
3. Give an account on Tapetum.
4. Explain the process of Double Fertilization.
5. Describe the Structure of Dicot Embryo.

**Section C (10 mark Questions)**

**Unit I: (Plant Morphology & Classification)**

1. Explain the different types of Racemose Inflorescence.
2. Write an essay on Bentham and Hooker system of Classification.

**Unit II: (Plant Taxonomy -Annonaceae, Rutaceae and Caesalpiniaceae)**

1. Enumerate the Characteristic features of Rutaceae.
2. Compare and Contrast the characters of Annonaceae and Caesalpiniaceae.



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**Unit III: (Plant Taxonomy - Asclepiadaceae, Lamiaceae, Euphorbiaceae and Poaceae)**

1. Give an account of economic importance of family Poaceae.
2. Explain the special mechanism of pollination in Asclepiadaceae and Lamiaceae.

**Unit IV: (Medicinal Botany)**

1. Give an account on medicinal plant *Ocimum sanctum*.
2. Write about the medicinal plant Wood Apple.

**Unit V: (Embryology)**

1. Describe the Structure of T.S of Mature Anther.
2. Describe the Structure and Development of Polygonum Type of Female Gametophyte.