Biyani Girls College

Botany-I

Model test paper-A

Taxonomy and Embryology of Angiosperms

Time allowed: 3hrs Max.Marks=33

Q1. a) Multiple choice questions:-			14 X 0.5 = 7				
1) Indian botanical garden is situated at:							
a) Sibpur. Kolka	ata b) Lalbagh, Ba	angalore c)Kuf	ri, Shimla d) None of the above				
2.) Type of pollination in <i>Vallisnaria</i> is							
a) Hydrophily	b) Zoophily	c) Anemophi	d) None of the above				
3) Types of ovules in Opuntia							
a) Circinotropus	sb)orthotropus	c)anatropus	d) none				
4) Function of tapetum is							
a) Locomotion	b)Respiration	c)Nutrition	d)Reproduction				
5) The author of	f Species Plantarum is:						
a) Engler and Pr	rantl b) Hutchinson	c)John Ray	d) Carlous Linnaeous				
6) Quinine is extracted from							
a) leaves	b) root c) frui	t d) bark					
7) In which family is Caryopsis fruit found							
a) Poaceae	b)Acanthaceae	c) Solanaceae	d) Apiaceae				
8) An example of self pollination is							
a) Maize	b) Salvia c) Val	lisnaria d) Su	nflower				
9) Fertilized egg is called							
a) Zygote	b) Ovule	c) Seed d) Em	bryo				
10) Function of suspensor is							

a) Provide nutrition	b) give oxygen	c) absorb food	d) push emryo towards endosperm & provide nutrition					
11) Sweet potato is the member of family								
a) Convolvulaceae	b) Acanthaceae	c) liliaceae	d)poaceae					
12) Anatropus ovule is found in								
a) Polygonum	b) Lathyrus c) Chenopodium	d) Brassica					
13) Capitulum inflorescence is found in family								
a) Ranunculaceae	b) Lamiaceae	c) Asteraceae	d) Apiaceae					
14) Caruncle (aril) is present in the seed of								
a) Castor b) pea	c)maize	d) cotte	on					
B) Answer the following in brief								
•Define perianth.								
•Write systematic position of family Ranunculaceae								
•What is triple fusion								
•What is antipodal cell								
•Define megasporogenesis								
•Write floral formula of calotropis								
UNIT-1								
Q2. Write short notes on the following:								
(i) Primitive characters of Ranunculaceae.								
(ii) Inflorescence in Apiaceae								
(iii) Taxonomic Literature.								
OP								

OR

Describe the main outline, merits and demerits of System proposed by Bentham & Hooker

UNIT-2

Q3. Write short notes on the following:

(i) Cyathium.

(ii) Botanical name and family of Sarpgandha

(iii) Family and floral formula of Helianthus

(iv) Peppus

OR

Explain the floral character of family Lamiaceae. Give its economic importance also.

UNIT-3

Q4. Write short notes on the following:

(i) Microsporogenesis

(ii) Cross pollination

(iii) Entry of pollen tube into ovule

OR

Describe various tages of development of female gamtophyte in angiosperms.

UNIT-4

Q5. Write short notes on the following:

(i) Parthenocarpy

(ii) Embryo development in monocots

OR

Explain different types of embryo sacs found in angiosperms with examples.

(5)

(5)

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Botany-I

Model test paper-B

Taxonomy and Embryology of Angiosperms

Time allowed: 3hrs Max.Marks=33

Q1. a) Multipl	e choice questions:-		(8 X 0.5 = 4)				
1) Taxonomy term was first time used by:							
a) AP de Candolle b) Carolus Linn		naeus	c)John Ray	d) None of the above			
2.) In Parthenocarpy fruit is developed from							
a) Pollen grain	b) Synergid	c) Ov	ary d) A	Antipodal			
3) Trimerous flower is found in							
a) Hibiscus	b)Asphodelus	c)Ipomoea	d) nigella				
4) Stylopodium is present in which family							
a) Poaceae	b)Acanthaceae	c) Lamiaceae	d) Apiaceae				
5) What is the standard size of plant press:							
a) 12x18"	b) 11.5x17.5"	c)15x25"	d) 13x20"				
6) When a specific epithet exactly repeats the generic name it is known as							
a) Priority b) Taxa c) Principle d) Tautonyms							
7) Alternative name of family Umbilliferae is							
a) Poaceae	b)Acanthaceae	c) Lamiaceae	d) Apiaceae				
8) Fruit name found in family Poaceae							
a) Capsella	b) Caryopsis c) Silie	cula	d) Achene				

(1x9=9)

B) Answer the following in brief

•Write international standard size of herbarium sheet

•Write floral formula of Ocimum plant

•What is egg appartus

•Give botanical name of two oil yielding plants of family asteraceae

•Define translator

•What do you understand by endospern haustoria

•What is bi-labiate corolla

•Write economic importance of Poaceae.

•Define Embrygenesis

UNIT-1

Q2. Write short notes on the following:

(i) Rules of botanical nomenclature

(ii) Placentation in Ranunculaceae

OR

Describe briefly the salient features of the system of classification proposed by Englar & Prantl. Add a brief note on its merits and demerits.

UNIT-2

Q3. Write family and floral formula of the following genra:

(i) Triticum (ii) Helianthus (iii) Euphorbia (iv) Ocimum (v) Calotropis

OR

Explain the floral character of family Poaceae. Give its economic importance also.

UNIT-3

Q4. Write short notes on the following:

(i) Pollination and its types

(ii) Self incompatibility

(5)

(5)

(5)

Q2. Write short notes on the following:

(i) Megasporogenesis

(ii) Flower is a modified shoot

UNIT-4

(5)

Q5. Write short notes on the following:		
(i) Polyembryony		
(ii) Embryo development in dicots		
OR		
Write short notes on the following:	(5)	
(i) Apomixis		
(ii) Types of Endosperms		