Botany

Chapterwise Practise Problems (CPP) for NEET

Chapter - Sexual Reproduction in Flowering Plants

1.	Pollen viability	period	for	Rosaceae	family	members
	is about					

- (1) 30 minutes
- (2) 30 seconds
- (3) Several months
- (4) 30 days
- 2. Apomixis is common in
 - (1) Fabaceae
 - (2) Solanaceae
 - (3) Sunflower family and grass family
 - (4) Mustard family
- 3. In majority of angiosperms, embryosac is
 - (1) Trisporic
- (2) Bisporic
- (3) Tetrasporic
- (4) Monosporic
- Read the given statements and select the correct option
 - (A) Hanging drop method requires 10% Sugar solution with boric acid, Ca, Mg and K salts
 - (B) Growth of pollen tube starts in microsporangium
 - (1) Both the statements A and B are correct
 - (2) Statement A is correct while B is incorrect
 - (3) Statement A is incorrect while B is correct
 - (4) Both the statements A and B are incorrect
- 5. Choose **odd** one with respect to double fertilization and triple fusion
 - (1) First studied by Nawaschin in Lilium and Papaver
 - (2) It includes syngamy and triple fusion
 - (3) Total five nuclei are involved
 - (4) It is key character of angiosperms
- 6. During dicot embryogeny, suspensor cell cuts towards _____(i) and embryonal cell towards _____ region.

Correct words for (i) and (ii), respectively are

- (1) Antipodal and Micropyle
- (2) Chalazal and Micorpyle
- (3) Micropyle and Antipodal
- (4) Chalazal and Antipodal

- Select the ploidy level of tissues like aleurone layer, endosperm and cotyledon in maize seed
 - (1) 2n, 3n, 2n
- (2) 2n, 3n, n
- (3) 3n, 3n, 2n
- (4) 3n, 2n, 3n
- 8. Which are is correct?
 - (1) Seeds are produced sexually
 - (2) Seeds can be produced asexually
 - (3) Seeds are found in gymnosperms
 - (4) More than one option is correct
- 9. In all of the following plants, both cleistogamous and chasmogamous flowers are found, **except**
 - (1) Viola
- (2) Commelina
- (3) Oxalis
- (4) Salvia
- 10. Which of the following show hydrophily?
 - (1) Yucca
- (2) Salvia
- (3) Ficus
- (4) Zostera
- 11. Label the points a, b and c of the figure given below and select the option accordingly

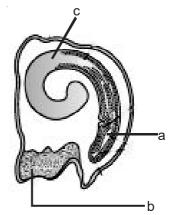


Fig.- Onion seed

- (1) a-Plumule, b-Endosperm, c-Cotyledon
- (2) a-Hypocotyl, b-Seed coat, c-Plumule
- (3) a-Hypocotyl, b-Endosperm,c-Cotyledon
- (4) a-Coleorrhiza, b-Plumule, c-Cotyledon

hydrophilous flower (1) Unwettable pollen grain (2) Pollens with mucilage covering (3) Large, feathery stigma (4) Both (1) and (2) 13. Endosperm is completely consumed by the developing embryo in (1) Pea (2) Beans and groundnut (3) Both (1) and (2) (4) Castor 14. Which one is not a structure associated with (1) Ants (2) Aphids (3) Wasps (4) Bees 23. Shield shape cotyledon situated lateral side embryonal axis in maize is called (1) Epiblast (2) Scutellum (3) Coleoptile (4) Coleorhiza 24. In majority of the aquatic plants (1) Hydrophily occurs (2) Anemophily and entomophily occurs (3) Malacophily occurs (4) Pollination is absent	thod					
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(3) Both (1) and (2) (4) Castor (3) Malacophily occurs 14. Which one is not a structure associated with (4) Pollination is absent						
14. Which one is not a structure associated with (3) Malacopnily occurs (4) Pollination is absent						
(4) FUIIII AUUT 15 AUSETIL						
monocot embryo?						
(1) Nucellus (2) Coleoptile (1) In vitro pollon Hanging drap mot						
(3) Coleorhiza (4) Root cap (1) In vitro pollen — Hanging drop met	101/07					
15. Seeds form the basis of our agriculture as they (2) Natural hybridisation – Emasculation	101/2"					
show (3) Double fertilization – Nawaschin in Pap	JUAR					
(1) Dormancy (2) Dehydration and triple fusion	avei					
(3) Haploidy (4) Both (1) and (2) (4) Outbreeding device - Bisexuality						
16. Choose the odd one out with respect to asexual 26. Read the statements carefully and find how r	nanv					
reproduction is/are correct						
(1) Syngamy (a) Pre-fertilisation involves gametogenesis						
(2) Recurrent agamospermy (b) Gamete mother cells may be haploid or di	ploid					
(e) / tarefully end	(c) Gametogenesis involves mitosis or meiosis					
(4) Sporophytic budding (d) Water is always needed for gamete transf	•					
17. In grass family, the cotyledon is called (1) 4 (2) 3						
(1) Hypocotyl (2) Epicotyl (3) 2 (4) 1	_					
(3) Epiblast (4) Scutellum 27. Which plant can not cause air borne allergies	?					
18. Find the mismatched pair with respect to						
endosperm nature (3) Vallisneria (4) Amaranthus						
(1) Proteinaceous endosperm – Maize 28. Majority of the flowering plants produce						
(2) Chitinuous endosperm – Date palm						
(3) Starchy endosperm – Wheat (3) Starchy endosperm – Wheat (3) Roth (1) and (2)						
(4) Oily endosperm – Castor (3) Both (1) and (2) (4) Unisexual flowers						
 19. The remains of second cotyledon in some grasses is called 29. Match the following columns and choose correct option with respect to development 						
(1) Epiblast (2) Hypocotyl embryosac and select the correct option	11 01					
(3) Scutellum (4) Epicotyl I II						
20. In cross hybridisation experiments, emasculation is required in (a) Monosporic (i) Chalazal end (b) Bisporic (ii) 4 megaspore nuclei take	nart					
(1) Zea (2) Phoenix in formation of embryos						
(3) Pisum (4) Carica (c) Tetrasporic (iii) Two megaspore nuclei f	orm					
21. Find out number of meiosis to form 50 seeds in a typical flowering plant (d) Functional megaspore forms embryosac forms embryosac	е					
(1) 200 (2) 100 (1) a(ii),b(iii),c(iv),d(i) (2) a(iv),b(iii),c(ii),d(i)	١					
(3) 63 (4) 13 (3) a(iv),b(iii),c(i),d(ii) (4) a(ii),b(iii),c(i),d(iv)	,					

- 30. The problems of using hybrid seeds can be solved by using apomictic seeds, because:
 - (1) Apomictic seeds often develop from diploid cells, so chance of segregation is not possible
 - (2) Apomictic seeds develop from fertilised eggs
 - (3) Apomixis is not genetically controlled
 - (4) Hybrid seeds are not resistant to pathogens
- 31. Which one is incorrect with respect to antipodals?
 - (1) They are located in micropyler end of embryosac
 - (2) In most of the plants, they are three in numbers
 - (3) They are haploid
 - (4) They are vegetative cells
- 32. In a plant species, female plant is tetraploid and male plant is diploid. The ploidy of egg and PEN will respectively be
 - (1) n and 3n
- (2) 2n and 2n
- (3) 2n and 5n
- (4) n and 5n
- 33. Mass of undifferentiated cells cover radicle and root cap in grass is called
 - (1) Coleoptile
- (2) Coleorrhiza
- (3) Scutellum
- (4) Epiblast
- 34. Self incompatibility
 - (1) Is not genetically controlled
 - (2) Promotes cross pollination
 - (3) Promotes self pollination
 - (4) Is absent in angiosperms
- 35. Megasporophyll is morphologically equivalent to
 - (1) Stamen
- (2) Inflorescence
- (3) Ovule
- (4) Carpel
- 36. Synergids
 - (1) Are haploid
 - (2) Possess cellular thickenings
 - (3) Degenerates finally
 - (4) More than one option is correct
- 37. Find odd one out with respect to entomophily
 - (1) Salvia
- (2) Yucca
- (3) Ficus
- (4) Maize
- 38. Innermost wall layer of anther helps in
 - (1) Providing protection
 - (2) Dispersal of pollens
 - (3) Providing nourishment to the developing pollen grains
 - (4) Formation of pollen grain

39. The given plant shows all adaptations for pollination, except



- (1) Light and non-sticky pollen
- (2) Well exposed stamens
- (3) Presence of nectaries
- (4) Flowers packed into inflorescence
- 40. The pollens of which of the following plants have the viability period about 30 minutes?
 - (1) Rice
- (2) Pea
- (3) Bean
- (4) Brinjal
- 41. **Statement A**: Only a small proportion of plants use abiotic agents.
 - Statement B : Pollen grains coming in contact with stigma is a chance factor in both wind and water pollination
 - (1) Only statement A is correct
 - (2) Only statement B is correct
 - (3) Both statements A and B are correct
 - (4) Both statements A and B are incorrect
- 42. The numbers of egg cell, helper cell and central cell in a normal embryo sac of a typical dicot plant are respectively
 - (1) 1, 2 and 2
- (2) 1, 2 and 1
- (3) 2, 3 and 1
- (4) 2, 2 and 2
- 43. Match Column-I with Column II and select the correct option

Column - I

Column - II

- a) Coleorrhiza
- (i) Fruit wall
- b) Scutellum
- (ii) Covering of radicle
- c) Pericarp
- (iii) Persistent nucellus
- d) Perisperm
- (iv) Single cotyledon
- (1) a(ii), b(iv), c(iii), d(i)
- (2) a(iv), b(ii), c(i), d(iii)
- (3) a(ii), b(iv), c(i), d(iii)
- (4) a(iii), b(iv), c(i), d(ii)
- 44. Choose **incorrect** match with respect to development
 - (1) Fertilized egg cell → Embryo
 - (2) Ovule → Seed
 - (3) Two polar nucleus + male gamete → PEN
 - (4) Synergid → Perisperm

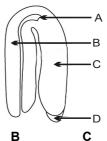
45.	$\alpha\text{-cellulosic fibrous bands of the anther wall layer ^{\prime\prime}$	s are associated with which ?	54.	Which of the following family lose their pollen viability within 30 minutes?					
	(1) Epidermis	(2) Endothecium		(1) Poaceae	(2) Leguminosae				
	(3) Middle layer	(4) Tapetum		(3) Rosaceae	(4) Solanaceae				
46.	Which of the following features are associated with			Perispermic seeds are p	present in				
	tapetum?		56.	(1) Beet and black pepper					
	(A) Polyploidy			(2) Apple and pear					
	(B) Polyteny			(3) Banana and beet					
	(C) Sporopollenin secret			(4) Black pepper and gram					
	(D) Compatibility protein			Self incompatibility					
	(1) A and C only	(2) A and B only		(1) Prevents cross pollination					
	(3) A, B and C only	(4) All A, B, C and D		(2) Allows pollen grains of other flowers of the same					
47.	_	jametophyte in angiosperms		plant to fertilise the ovule					
	(1) Is in-situ		57.	(3) Is a genetically controlled mechanism					
	(2) Occurs within the ov	ule		(4) Does not allow the good of other species on t	germination of pollen grains he stigma				
	(3) Both (1) and (2)			Two celled male gametophyte of angiosperms					
	(4) Is ex-situ			(1) Is formed by <i>in situ</i> development of pollen grain					
48.	Vegetative cell of pollen	grain	58.	(2) Includes tube cell and one male gamete					
	(1) Is diploid			(3) Includes two generative cells					
	(2) Possess irregular sh	aped nucleus		(4) Is a result of post pollination development					
	(3) Lacks food matter				tatement with respect to				
	(4) Is smaller than gene			apomixis					
49.	Pollen allergy is commegrains of	only caused by the pollen		(1) Production of seed without fertilisation					
	(1) Parthenium	(2) Rosa		(2) Mimics asexual reproduction					
	(3) Brassica	(4) Pisum		(3) Present in some sp grasses	pecies of Asteraceae and				
50.		de the ovule in most of the		(4) Genetically controlle	d				
50.	flowering plants is through		59.						
	(1) Micropyle	(2) Chalaza	00.	stigma receptivity are no					
	(3) Integument	(4) Funicle		(1) Prepotency	(2) Incompatibility				
51.	The most common	type of endosperm in		(3) Dicliny	(4) Dichogamy				
	angiosperm is (1) Cellular type	(2) Nuclear type	60.	How many total nucle fertilization?	ei participate in double				
	(3) Acellular type	(4) Both (1) and (3)		(1) Three	(2) Two				
52.	Syncarpous condition is	., ., .,		(3) Five	(4) Ten				
02.	(1) Michelia	Todila III	61.	· · · · · · · · · · · · · · · · · · ·					
	(2) Papaver and Hibiscu	ıs		prevents					
	(3) Papaver and Michelia			(1) Autogamy, but not geitonogamy					
	(4) Hibiscus and Michel			(2) Both geitonogamy a	• •				
53.		respect to secretions from		(3) Both autogamy and					
00.	tapetum	receptor to secretions from		(4) Geitonogamy, but no	ot xenogamy				
	(1) Compatibility proteins	. ,							
	(3) Sporopollenin	(4) Callose							

- 62. Select the functions associated with tapetum
 - (i) Nutrition to the developing microspores
 - (ii) Pollen kit synthesis
 - (iii) Sporopollenin and compatibility protein secretion
 - (1) (i) & (ii) only
- (2) (ii) only
- (3) (i) & (iii) only
- (4) All (i), (ii) & (iii)
- 63. In *Oenothera lamarckiana*, an angiosperm, the endosperm cells are
 - (1) Haploid
- (2) Diploid
- (3) Triploid
- (4) Tetraploid
- 64. The moisture content of dormant seed decreases by mass up to
 - (1) 10 15%
- (2) 20 50%
- (3) 50 70%
- (4) 1 2%
- 65. The most common type of ovule found in 82% of angiosperm is
 - (1) Orthotropous
- (2) Anatropous
- (3) Amphitropous
- (4) Hemi-anatropous
- Entry of pollen tube into the ovule takes place through
 - (1) Micropyle
 - (2) Chalaza
 - (3) Integument
 - (4) More than one option is correct
- The correct polarity of nucleus and central vacuole in the egg is
 - (1) Nucleus towards chalazal end and central vacuole towards micropylar end
 - (2) Nucleus towards micropylar end and central vacuole towards chalazal end
 - (3) Nucleus and central vacuole both towards micropylar end
 - (4) Nucleus and central vacuole both towards chalazal end
- 68. In coconut, the nature of endosperm is
 - (1) Starchy
- (2) Oily
- (3) Cellulosic
- (4) Hemicellulosic
- 69. During the embryogeny in dicot plants, embryonal cell (terminal cell) is situated towards the
 - (1) Micropylar end
- (2) Antipodal region
- (3) Chalazal end
- (4) Both (2) and (3)
- 70. Find out the incorrect statement
 - (1) Carpel is a type of megasporophyll
 - (2) Corolla is a non-essential whorl of flower
 - (3) Ovule is a non-integumented microsporangium
 - (4) Flower is a modified shoot

- 71. Find the incorrect match
 - (1) Tapetal cell Low DNA content
 - (2) Polyembryony –
 - (3) Cleistogamy Commelina
 - (4) Perisperm Persistent nucellus
- 72. Which wall layer of pollen sac has wall thickening of α -cellulosic fibrils ?
 - (1) Epidermis
- (2) Endothecium

Citrus

- (3) Middle layer
- (4) Tapetum
- Examine the figure given below and select the correct option w.r.t the four part A, B, C and D correctly.



- A B C
 (1) Plumule Hypocotyl Cotyledon
- (2) Hypocotyl Plumule Cotyledon Root Cap

D

Radicle

- (3) Hypocotyl Cotyledon Hypocotyl Radicle
- (4) Plumule Cotyledon Hypocotyl Root Cap
- 74. If hybrids are made into apomicts, there is
 - (1) Segregation of characters in the offsprings
 - (2) No segregation of characters in the hybrid progeny
 - (3) Chance of cross fertilisation
 - (4) Negligible seed production
- 75. Select the odd one w.r.t. outbreeding device
 - (1) Unisexuality
- (2) Dichogamy
- (3) Homogamy
- (4) Self-incompatibility
- 76. Flowers secreting foul odours are pollinated by
 - (1) Birds
- (2) Beetles
- (3) Water
- (4) Snakes
- 77. Read the following statements and choose the option which is **true** for them
 - (A) Hydrophily is limited to about 30 genera, mostly dicots
 - **(B)** Presence of a single ovule in each ovary is an adaptation of anemophily
 - (1) Both A and B are correct
 - (2) A is correct and B is incorrect
 - (3) A is incorrect and B is correct
 - (4) Both A and B are incorrect

78.	Which of the following combination are diploid?		Column I Column II						
	(1) Integument, funicle, nucellus		(A) In-vitro pollen germination (i) Vegetative fertilisation						
	(2) Antipodals, PEN, integument								
	(3) PEN, funicle, nucellus		(B) Artificial hybridisation (ii) Emasculation and Bagging						
	(4) Nucellus, antipodals, integument		(C) Triple fusion (iii) Sporophytic budding						
79.	When a diploid male plant is crossed with a		(D) Adventitive embryony (iv) Hanging drop method						
	tetraploid female plant of the same angiospermic species, the ploidy level of endosperm cells in the		(1) A-(iv); B-(ii); C-(i); D-(iii)						
	resulting seed is		(2) A-(iv); B-(ii); C-(iii); D-(i)						
	(1) Pentaploid (2) Tetraploid		(3) A-(ii); B-(iv); C-(iii); D-(i)						
	(3) Diploid (4) Triploid		(4) A-(iv); B-(iii); C-(ii); D-(i)						
80.	The intine of pollen grain is made up ofA	86.	Which one is correct ?						
	and <u>B</u>		(A) Pollen tube ruptures inside one of the synergids						
	Select the correct option for A and B		(B) Antipodal cell nucleus gets transformed into						
	(1) A – Cellulose, B – Sporopollenin		primary endosperm nucleus (PEN)						
	(2) A – Cellulose, B – Hemicellulose		(1) Both A and B are correct						
	(3) A – Cellulose, B – Pectin		(2) Both A and B are incorrect						
	(4) A – Sporopollenin, B – Pectin		(3) Only A is correct						
81.	Disadvantage of cross pollination is		(4) Only B is correct						
	(1) Wasteful process in terms of pollen loss	87.	Identify the following statements as true (T) or false (F)						
	(2) Undesirable traits may be introduce		All aquatic plants are pollinated by water						
	(3) Pollination is a chance factor		Wind pollination is quite common in grasses						
	(4) More than one option is correct		III. Flowers of animal pollinated plants are often						
82.	The middle layer of a microsporangium		specifically adapted for a particular species o						
	(1) Is always single layered		animal						
	(2) Remains intact for over		IV. Majority of plants use abiotic agents for pollination						
	(3) Is triploid		I II III IV						
	(4) Helps in anther dehiscence		(1) T F T T						
83.	Select the correct match :		(2) F T T F						
	(1) Epihydrophily – Zostera		(3) F F F T						
	(2) Entomophily – Maize		(4) T F F F						
	(3) Free nuclear endosperm - Coconut	88.	In a flowering plant a tetraploid male plant is cross pollinated with a diploid female plant of the same						
	(4) Perisperm – Groundnut		angiospermic species. What would be the ploidy of endosperm and embryo developed respectively?						
84.	The feature(s) that help(s) in storage of seed and								
	also to raise crops in the next season is/are		(1) 5n and 2n (2) 4n and 3n						
	(1) Dormancy (2) Dehydration		(3) 3n and 3n (4) 3n and 2n						
	(3) Inviability (4) Both (1) and (2)	89.	Monoecious condition of plants having unisexual flowers favours						
85.			: =: : = =:: =						
	Match the given columns and select the correct option		(1) Autogamy (2) Cleistogamy						

- 90. Find the **incorrect** match
 - (1) Monosporic embryo sac Oenothera
 - (2) Free nuclear endosperm Coconut
 - (3) True fruit Apple
 - (4) Perispermic seed Beet
- 91. Which one is **not** the adaptive features of entomophilous flower?
 - (1) Winged pollen grain
 - (2) Colourful and scented flower
 - (3) Presence of nectaries
 - (4) Floral reward for insects
- 92. Which one is **correct** developmental sequence for dicot embryo ?
 - (1) Octant → Mature embryo → Heart shaped
 - (2) Heart shaped → Globular → Mature embryo
 - (3) Globular \rightarrow Heart shaped \rightarrow Mature embryo
 - (4) Globular → Octant → Heart shaped
- 93. which of the following is wrong?
 - (1) Pollen grains are about 25 μm in diameter
 - (2) Exine is the outer layer of pollen
 - (3) Intine is made of sporo pollenin
 - (4) Generative cell is spindle shaped
- 94. Choose the **odd** one with respect to plants causing pollen allergy
 - (1) Chenopodium
- (2) Amaranthus
- (3) Viola
- (4) Parthenium

- 95. Which of the following is **correct** for double fertilisation?
 - (1) Only two gametes are involved
 - (2) Syngamy occurs twice
 - (3) It results in the formation of two diploid cells
 - (4) Characteristic feature of both dicots and monocots
- 96. Which of the following adaptations of flowers/plant promote inbreeding depression ?
 - (1) Self incompatibility, heterostyly
 - (2) Homogamy, bisexuality, cleistogamy
 - (3) Bud pollination, dichogamy
 - (4) Dioecy, Protandry, herkogamy
- 97. Sporopollenin is
 - (1) Present in exine
 - (2) Non degradable inorganic compound
 - (3) Released from sporogenous cells
 - (4) Produced by pollen grains on the stigma
- 98. Find out the **correct** developmental sequence in the life cycle of flowering plants
 - (1) Pollen mother cell ----> megaspore tetrad
 - (2) Nucellus ---> Megaspore mother cell
 - (3) Secondary nucleus → PEN
 - (4) Both (2) and (3)

ANSWERS

1.	(3)	2.	(3)	3.	(4)	4.	(2)	5.	(1)	6.	(3)	7.	(3)
8.	(4)	9.	(4)	10.	(4)	11.	(3)	12.	(4)	13.	(3)	14.	(1)
15.	(4)	16.	(1)	17.	(4)	18.	(2)	19.	(1)	20.	(3)	21.	(3)
22.	(4)	23.	(2)	24.	(2)	25.	(1)	26.	(2)	27.	(3)	28.	(3)
29.	(2)	30.	(1)	31.	(1)	32.	(3)	33.	(2)	34.	(2)	35.	(4)
36.	(4)	37.	(4)	38.	(3)	39.	(3)	40.	(1)	41.	(3)	42.	(2)
43.	(3)	44.	(4)	45.	(2)	46.	(4)	47.	(3)	48.	(2)	49.	(1)
50.	(1)	51.	(2)	52.	(2)	53.	(4)	54.	(1)	55.	(1)	56.	(3)
57.	(1)	58.	(2)	59.	(4)	60.	(3)	61.	(1)	62.	(4)	63.	(2)
64.	(1)	65.	(2)	66.	(4)	67.	(1)	68.	(2)	69.	(4)	70.	(3)
71.	(1)	72.	(2)	73.	(4)	74.	(2)	75.	(3)	76.	(2)	77.	(3)
78.	(1)	79.	(1)	80.	(3)	81.	(4)	82.	(4)	83.	(3)	84.	(4)
85.	(1)	86.	(3)	87.	(2)	88.	(2)	89.	(4)	90.	(3)	91.	(1)
92.	(3)	93.	(3)	94.	(3)	95.	(4)	96.	(2)	97.	(1)	98.	(4)