		Sexual Reproducti	on in flowering plant	- I (DPP)		
1.	Male gametophyte of	angiosperms is reduc	ed to			
Δ	(a) One cell	(b) Two cells	(c) Three cells	(d) Four cells.		
Ans.	(c)					
Sol.		te finally consists of tw	_	<del>-</del>		
###101	Events###	luction  Sexual Repro	auction in Flowering	Plants  Pre-Fertilization Structures and		
2.	Fore-runner of male g	gamete is				
	(a) Megasporangium	•	(c) Embryo sac			
	(d) Microspore moth	er cell.				
Ans.	(d)					
Sol.	•	J	•	es, mitosis in them forms gametes		
###101	PIC###Biology  Reprod Events###	luction  Sexual Repro	duction in Flowering	Plants  Pre-Fertilization Structures and		
3.	Hay fever is caused b	y plants having				
	(a) Entomophily	(b) Cheiropterophily	(c) Malacophily	(d) Anemophily		
Ans.	(d)					
Sol.	Wind pollinated polle	n behaves as allergen.				
###TOI	PIC###Biology  Reprod	luction  Sexual Reprod	uction in Flowering Pla	nts  Pollination###		
4.	What would be the n	umber of chromosom	es of the aleurone cel	ls of a plant with 42 chromosomes in its		
	root tip cells?					
	(a) 21	(b) 42	(c) 63	(d) 84		
Ans.	(c)					
Sol.	2N = 42  hence  3N = 4	2/2×3 = 63				
###TOI	PIC###Biology  Reprod Events###	luction  Sexual Reprod	duction in Flowering	Plants  Post-Fertilization Structures and		
5.	A Diploid male angiospermic plant is crossed with tetraploid female plant. Endosperm of seed will be					
	(a) Haploid	(b) Triploid	(c) Tetraploid	(d) Pentaploid.		
Ans.	(d)					
Sol.	N (male gamete) + 2N	I (Polar nucleus) + 2N (	(polar nucleus) = 5N			
###TOI	PIC###Biology  Reprod Events###	luction  Sexual Reprod	duction in Flowering	Plants  Post-Fertilization Structures and		
6.	Number of meiotic di	visions required to pro	oduce 200 seeds of Pea	a would be		
	(a) 200	(b) 400	(c) 300	(d) 250		
Ans.	(d)					
Sol.	For 200 seeds 200 male gametes (50 divisions) and 200 female gametes (200 divisions).					
###TOF	PIC###Biology  Reprod Events###	luction  Sexual Repro	duction in Flowering	Plants  Pre-Fertilization Structures and		
7.	When the ovule is cu	the ovule is curved more or less at right angle to funicle and mycropylar end is bend down slight e of ovule is				
	(a) Anatropous	(b) Campylotropous	(c) Hemianatropous	(d) Circinotropous		

Ans. (b)

Sol. When the ovule is at right angle to the funicle but micropyle is not bend it is called hemianatropous ###TOPIC###Biology  Reproduction  Sexual Reproduction in Flowering Plants  Flower Structure###							
8. Ans. Sol. ###T	<ul> <li>(a) Pollination is done by Colpa wasp</li> <li>(b) It is called pseudocopulation mechanism</li> <li>(c) Female wasp lays eggs inside the ovary of flower</li> <li>(d) The orchid employs sexual deceit to get pollinated</li> <li>Ans. (c)</li> </ul>						
9. Ans. Sol.	It bears microsporangia	(b) Megasporophyll	(c) Microsporangium  Reproduction in Flowe	(d) Megasporangium ring Plants  Flower Structure###			
Ans. Sol.	The sporangia develops	(b) Eusporangiate		(d) Simple  Plants  Pre-Fertilization Structures and			
	The ubisch bodies help	(b) Middle layers in forming sporopolle		(d) Epidermis  Plants  Pre-Fertilization Structures and			
Ans. Sol.	These help in dehiscen	(b) <-Cellulose	(c) Pectin	(d) Lignin  Plants  Pre-Fertilization Structures and			
Ans. Sol.	<ol> <li>The exine of pollen grains (microspores) is composed of         <ul> <li>(a) Pollen kitt</li> <li>(b) a-cellulose</li> <li>(c) Sporopollenin</li> <li>(d) Lignin</li> </ul> </li> <li>ol. Sporopollenin gives hardy nature to pollen.</li> <li>##TOPIC###Biology  Reproduction  Sexual Reproduction in Flowering Plants  Pollination###</li> </ol>						
14. Ans.	The number of germ po (a) 1, 3 (c)	ores in dicots and mon (b) 2, 3	ocots pollen grains are (c) 3, 1	e respectively (d) 3, 2			

Sol.	Dicots are tricolpate while monocots are monocolpate. ###TOPIC###Biology  Reproduction  Sexual Reproduction in Flowering Plants  Pre-Fertilization Structures and							
	Events###							
15.	Pollen tube is pro	duced by						
	(a) Exine	(b) Intine	(c) I	Both exine and i	ntine (	d) Generative cell		
Ans.	• •							
Sol.	-	It is pectocellulosic in nature.						
		###TOPIC###Biology  Reproduction  Sexual Reproduction in Flowering Plants  Pre-Fertilization Structures and						
	Events###							
16.	Number of male g	gametes in one poller	tube is					
	(a) 1	(b) 2	(c)	4	(d)	6		
Ans.	(b)							
Sol.	The generative ce	ll under goes mitosis	to produce	d two male gan	netes.			
	###TOPIC###Biolo	gy  Reproduction  S	exual Repro	duction in Flowe	ering Pla	ants  Pre-Fertilization Structures and		
	Events###							
17.	Evon after killing t	the generative cell wi	th a lacar h	oam the pollon	arain a	f a flowering plant germinates and		
17.	_	pollen tube because	tii a iasei D	eam the polien	graino	i a nowering plant germinates and		
	•	timulates pollen gerr	nination an	d nollen tuhe ar	owth			
		ve cell has not been d		u polieli tube gi	OWLII			
			_	ermination and	l noller	tuhe growth		
	<ul><li>(c) The contents of killed generative cell permit germination and pollen tube growth</li><li>(d) The laser beam does not damage the region from which pollen tube emerges</li></ul>							
Ans.		000000 00080						
		ell produces male gan	netes while	vegetative cell h	nelp to	produce pollen tube.		
	_			_	-	ants  Pre-Fertilization Structures and		
	Events###		·		J			
18.		owing is/are omithop						
_	(a) Erythrina	(b) Bombax	(c)	Grevillea	(d)	All of these		
Ans.	• •							
	The are pollinated	•	<b>.</b>			D. H. et unu		
###1	OPIC###Biology  R	eproduction  Sexual	Reproductio	n in Flowering P	'iants	Pollination###		
19.	Maturation of gyr	noecium before antho	ers of the sa	me flower is ca	lled			
	(a) Protogyny	(b) Protandry		Heterogamy		Dichogamy		
Ans.		, , ,	, ,	σ,	, ,	ζ ,		
Sol.	It helps in cross po	ollination.						
###T	OPIC###Biology  R	eproduction  Sexual	Reproductio	on in Flowering P	lants	Pollination###		
20.	Which is not a cor	ntrivance for self poll	ination?					
۷٠.	(a) Homogamy	-		Cleistogamy	(4)	Dichogamy		
Ans.		(b) buu poliin	ation (C)	CICISLUBAIIIY	(u)	Dictiogatily		
	• •	curation of sex organs	at differen	t times				
	- ,	eproduction  Sexual			lants	Pollination###		

21.	Which is generally not a characteristic of anemophilous flower?					
	(a) Unisexual nature	(b) Abundant pollen grains				
	(c) Bright coloured	(d) Reduction in no. o	of sepals, petals and o	vules		
Ans.	(c)					
Sol.	Anemophilous flower are wind pollinated.					
###T	OPIC###Biology  Reprod	duction  Sexual Reprod	duction in Flowering Pla	ants     Pollination###		
22.	A characteristic of ento	A characteristic of entomophilous pollen grains is presence of				
	(a) Powdery nature	(b) Sticky pollen kitt material				
	(c) Carotenoids	(d) Ubisch bodies				
Ans.	(b)					
Sol.	This coating on pollen i	makes it sticky.				
###T	OPIC###Biology  Reprod	duction  Sexual Reprod	duction in Flowering Pla	ants  Pollination###		
23.	When some natural ba	rriers exist between th	ne stamens and pistil to	o check self pollination, it is known as		
	(a) Heterostyly	(b) Herkogamy	(c) Dichogamy	(d) Dicliny		
Ans.	(c)					
Sol.	It promotes cross pollir	nation				
###T	OPIC###Biology  Reprod	duction  Sexual Reprod	duction in Flowering Pla	ants  Pollination###		
24.	When the pollen tube	enters the embryo sad	c. one of the following	is always destroyed		
	(a) Antipodal	(b) Egg	(c) Synergid	(d) Polar nucleus		
Ans.	(c)					
Sol.	This helps to create spa	ace for pollen tube inc	lusions			
###T	OPIC###Biology  Reprod	duction  Sexual Reprod	duction in Flowering Pla	ants     Pollination###		
25.	Ovules are also called					
	(a) Megasporophyll		(b) Integumented me	egasporangia		
	(c) Seeds		(d) Nucellus			
Ans.	(b)					
Sol.	These develop on meg	asporophylls (carpels)				
###T	OPIC###Biology  Reprod	duction  Sexual Reprod	duction in Flowering Pla	ants  Pre-Fertilization Structures and		
	Events###					
26.	How many megaspore	mother cells are requi	red to produce 100 eg	ggs during meiosis?		
	(a) 1	(b) 100	(c) 50	(d) 25		
Ans.	(b)					
Sol.	Out of four megaspore	s produced in each me	eiosis three degenerate	e.		
###T	OPIC###Biology  Reprod	duction  Sexual Reprod	duction in Flowering Pla	ants  Pre-Fertilization Structures and		
	Events###					
27.	The fusion of second male gamete with secondary nucleus is called					
	(a) Double fertilization	(b) Triple fusion	(c) Syngamy	(d) Triple fertilization		
Ans.	• •					
	It gives rise to triploid F					
###T		duction  Sexual Reproc	duction in Flowering Pla	ants  Post-Fertilization Structures and		
	Events###					
28.	Egg apparatus is situat	<del></del>				
	(a) Micropylar, 2	(b) Chalazal, 3	(c) Micropylar, 3	(d) Chalazal, 2		
Ans.	(c)					

Sol.	It consists of excel egg cell and two synergids.							
###T	OPIC###Biology  Rep	oroduction  Sexual Repro	duction in Flower	ing Plants  Post-Fertilization Str	uctures and			
	Events###							
29.	Phenomenon of double fertilization was discovered by							
	(a) Strasberger	(b) P. Maheshwari	(c) Amici	(d) Nawaschin				
Ans.	(d)							
Sol.	It was discovered in <i>Lilium</i> and <i>Frittalaria</i> .							
###T	OPIC###Biology  Rep	production  Sexual Repro	duction in Flower	ing Plants  Double Fertilization	###			
30.	Ploidy level of endosperm in angiosperm is generally							
	(a) n	(b) 2n	(c) 3n	(d) 6n				
Ans.	(c)							
Sol.	It gives arises from triploid PEN.							
###T	OPIC###Riology     Rev	production     Sevual Repro	duction in Flower	ing Plants     Double Fertilization	±##			