SEXUAL REPRODUCTION IN FLOWERING PLANTS

1.	What would be the plo	idy of cells of tetrad?	11.	=	_	nent prece	des embryo				
	(1) n (2) 2n	(3) 3n (4) 4n		developme							
2.	Which of the following	statements are correct?		(1) Embryo endospe		nutrition to	developing				
	(1) Pollen grains are ric	h in nutrients.		(2) Endosperm provides nutrition to devel							
	(2) In some cereals like r	ice and wheat pollen grains		embryo	1		1 3				
	lose viability within	30 minutes of their release		=	_	ment starts	after embryo				
	(3) In some members of	rosaceae, leguminosae and		develop							
		grains maintain viability for	12.	(4) All of th		مما مینام مامم	o the level of				
	months		12.	The portion of embryonal axis above the level of cotyledons is called							
	(4) All of the above			(1) Hypocot		(2) Epicoty	1				
3.	The number of ovules i	in an ovary may be		(3) Tigellum (4) Scutellum							
	(1) One	(2) Many	13.	-	w the level of						
	(3) Two	(4) One to many		cotyledons		(2) Enjactu	1				
4.		two protective envelopes		(1) Hypocot		(2) Epicoty (4) Scutellu					
т.	called	two protective envelopes	14	(3) Tigellum	ım						
	(1) Micropyle	(2) Integuments	14.		geitonogam						
	(3) Hilum	(4) Chalaza		(1) Allogam	-	(2) Xenoga					
E			1-	(3) Autogan	•	(4) Cleistog	-				
5 .	Chalaza represents the		15.	Endosperm is completely consumed by develor embryo in							
	(1) Tip of the ovule	(2) Base of the ovule		(1) Castor		(2) Coconu	+				
	(3) Both (1) & (2)	(4) Stalk of the ovule		(3) Wheat		(4) Pea	L				
6.	-	entiate a single megaspore	16.	` '	mau narcict	t in mature s	and in				
	mother cell in the		10.	(1) Pea	may persisi	(2) Castor	eeu III				
	(1) Micropylar region	(2) Chalazal region		(3) Groundr		(4) Beans					
_	(3) Both 1 & 2	(4) Integument region	17.				present in an				
7 .	Polar nuclei are situate		17.	Usually, How many embryosacs are present in a ovule?							
	(1) Below the egg appa(2) Above the egg appa			(1) 1		(2) 2					
	(3) Below the antipodal			(3) 3		(4) Many					
	(4) All of the above		18.	What would be the genetic nature of apon							
8.		lls are grouped together at		embryo?							
	the micropylar end to c			(1) n							
	(1) Antipodals	(2) Synergids		(2) 3n (3) 2n							
	(3) Egg apparatus	(4) Polar nuclei			like mother	plants					
9.		cial cellular thickening at the	19.		of functional						
٠.	micropylar tip, called	sar condiar imenorming at the		megaspore and female gametophyte respective							
	(1) Antipodals	(2) Filiform apparatus		(1) n, n	(2) 2n, 2n	(3) n, 2n	(4) 2n, n				
	(3) Obturators	(4) Vascular tissue	20.	In Castor p	lant ·						
10.		pollinated flower, in which	~0.	=	ny is possible	o .					
10.	-	ace to lay eggs for insect is		(2) Geitonogamy is possible							
	(1) Vallisneria	(2) Salvia		(3) Both are		7010					
	(3) Amorphophallus	(4) Maize		(4) Both are not possible							
	(อ) กากอายาอยาสแนร	(+) Maize		(1) Doni ale	o not possibl						

21.		ther in angiosperm having	31.	From outer to inner what is the sequence of w layers in anther lobes?						
	two theca it is called:	(0) = .		(1) Epidermis, middle la	tanetum endothecium					
	(1) Monothecous	(2) Dithecous		(2) Epidermis, endothed		=				
	(3) Monosporangiate	(4) Tetrasporangiate		(3) Epidermis, endothe		• •				
22 .	Which of the following	part of the flower serves as		(4) Tapetum, middle lay						
	a landing platform for	pollen grain ?	32 .	Due to which of the following chemical depos						
	(1) Stigma	(2) Ovary	J	pollen grains are well j						
	(3) Style	(4) Ovule		(1) Pollenkitt	(2)	Callose				
23 .		eguments is a mass of cells		(3) Sporopollenin		Pectocellulose				
	called	(O) N II	33 .	Which of the following						
	(1) Micropyle	(2) Nucellus		fascinating array of (Sculpturing pattern)?	т ра	iterns and designs				
04	(3) Chalaza	(4) Embryosac		(1) Germpores	(2)	Exine				
24.	Example of plants, which flowers:	ch contains cleistogamous		(3) Intine	` '	Tapetum				
	(1) Oxalis		34 .	Regarding to format		•				
	(2) Commelina			microspore which of						
	(3) Viola (Common pan	su)		incorrect						
2 5.	(4) All of the above	-91			(1) Generative cell is bigger					
25 .	Cleistogamous flowers	are invariably :		(2) Vegetative cell possess irregularly shaped nucle						
	(1) Autogamous	(2) Xenogamous		(3) Generative cell float cell	s in c	ytoplasm of vegetative				
	(3) Geitonogamous	(4) All are possible		(4) Vacuole is present i	etative cell					
22. 1 () () () () () () () () () (Wind pollinated flowers ovary.	often haveovule in each	35 .	Which of the following is not a pollen grain caused disease?						
	(1) Many (2) Two	(3) One (4) Three		(1) Asthma	(2)	Bronchitis				
27 .	Pollen tube enters into	the embryosac through :		(3) Hayfever	(4)	Malaria				
	(1) Chalaza	(2) Integument	36 .	Regarding to number of	of ovi	ıles in ovary select out				
	(3) Filiform apparatus	(4) Funiculus		the odd one						
28 .	Syngamy results in the	formation of :		(1) Wheat	(2)	Orchids				
	(1) Zygote		0.7	(3) Paddy	. ,	Mango				
24. If (() () () () () () () () () () () () ()	(2) Primary endosperm(3) Endosperm	nucleus	37.	Nucellus, the mass of cells enclosed within t integuments, provide nutrition to						
	(4) Fruit			(1) Embryosac	(2)	Embryo				
29.		nich end of embryosac?		(3) Seed	(4)	Ovule				
	(1) Micropylar end	mon one or omery code.	38 .	During embryo sac fo		•				
25. 26. 27. 28.	(2) Chalazal end			out of eight nucleus go formation?	ugh cytokinesis or wall					
	(3) Funiculus				(0)	T				
	(4) Outside the ovary			(1) All eight	(2)	Two				
30 .	•	velop further and become	20	(3) Six (4) Four						
		nese pollen sacs extends	39 .	Geitonogamy is the transfer of pollen grains from anther to stigma of another flower of the same plant						
	-			is :-	11					
	(2) Longitudinally (3) Obliquely			(1) Functionally cross pollination						
		arcality and some time-		(2) Genetically self pollination						
	longitudinally	ersaly and some times		(3) Ecologically cross pollination						
	iorightuminity			(4) All the above						
	1011ghamiany		•							

- **40**. Regarding to cross pollination which of the following statement is incorrect?
 - (1) Plants use two abiotic and one biotic agent
 - (2) Majority of plants use abiotic agents for pollination
 - (3) Production of enormous amount of pollen grains is concerned to compensate uncertainity and loss of pollens
 - (4) Pollination by wind is more common among abiotic pollinations
- **41**. About wind pollination which of the following is incorrect?
 - (1) Light and non sticky pollengrains
 - (2) Well exposed stamens
 - (3) Feathery stigma
 - (4) Highly scented flowers
- **42**. Which of the following is probable reason of limited distribution of bryophytes and pteridophytes?
 - (1) Jacketed multicellular sex organs
 - (2) Absence of roots
 - (3) Absence of seeds
 - (4) Need of water for transfer of male gametes
- **43**. Regarding to type of pollination which of the following is odd one
 - (1) Vallisneria
- (2) Hydrilla
- (3) Water lily
- (4) Zostera
- **44**. The genetic mechanism which inhibit pollen germination or pollentube growth in pistil so that self pollination can be prevented is known as
 - (1) Inbreeding depression
 - (2) Self incompatibility
 - (3) Inter specific incompatibility
 - (4) Heterosis

- **45**. In which of the following plants both autogamy and geitonogamy is absent
 - (1) Maize
- (2) Mango
- (3) Papaya
- (4) Castor
- 46. Perisperm is present in
 - (1) Mango
- (2) Guava
- (3) Black pepper
- (4) Pea
- **47**. Which of the following is not involved in post fertilisation events
 - (1) Endosperm and embryo development
 - (2) Maturation of ovules into seed
 - (3) Maturation of ovary into fruit
 - (4) Degeneration of nucellus
- **48**. The structure in which few leaf primordia and shoot apex of monocot embryo remain enclosed is
 - (1) Coleoptile
- (2) Coleorhiza
- (3) Epiblast
- (4) Epicotyl
- **49**. In mature seed how much amount of moisture is present
 - (1) 5-10 percent
 - (2) 10-15 percent
 - (3) 15-20 percent
 - (4) 20-25 percent
- **50**. Seed is the basis of our agriculture. Which of the following is/are crucial for storage of seeds, so that they can be used as food through out the year and also to raise crop in the next season
 - (1) Dehydration
- (2) Dormancy
- (3) Vermiculture
- (4) Both 1 and 2

ANSWERS KEY																				
Que.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Ans.	1	4	4	2	2	1	1	3	2	3	2	2	1	3	4	2	1	4	1	2
Que.	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
Ans.	2	1	2	4	1	3	3	1	1	2	3	3	2	1	4	2	1	3	4	2
Que.	41	42	43	44	45	46	47	48	49	50										
Ans.	4	4	3	2	3	3	4	1	2	4										