NEET : CHAPTER WISE TEST-1							
SUBJECT :- BIOLOGY CLASS :- 12 th			DATE NAME				
CHAPTER :- SEXUAL REPRODUCTION IN FLOW. PLANTS			SECTION				
	(SECT)						
1.	A typical angiospermic flower consist of	7.		g wall layers of anther			
	(A) Four essential and fertile whorls		plays a predominant r	ole in its dehiscence?			
	(B) Two essential and two accessory		(A) Epidermis	(B) Endothecium			
	whorls		(C) Middle layers	(D) Tapetum			
	(C) There nonessential and one accessory						
	whorl	8.	Viability of pollen gra	y of pollen grain depends on			
	(D) There nonessential and one essential		(A) Genetic constitut	•			
	whorl			oropollenin in exine of			
	whom		pollen grain				
2.	A typical anther is bilobed and		(C) Temperature and (D) All of the above	a humidity			
	tetrasporangiate. It ischaracterized with all						
	these features, except	9.	Pollen grain loses its	viability within half an			
	(A) Surrounded by four wall layers		hour of its release in	-			
	(B) Two microsporangia in each lobe		(A) Cereals such as				
	(C) Sporogenous tissues at the center of each microsporangia		(B) Members of fami	•			
	(D) One pollen sac in each lobe		(C) Members of fami (D) Both (B) and (C)	iy Leguminosae			
3.	All are features related to tapetal ce <mark>lls,</mark>	10.	An anther having fo	ur microspore mother			
	except			following number of			
	(A) Dense cytoplasm (B) Multinucleate		male gametes:				
	(C) Polyploid		(A) 64 (C) 16	(B) 32 (D) 256			
	(D) Have little DNA content		(0) 10	(D) 200			
		11.	Pre-pollination germ	ination of pollen grain			
4.	The outer three layers of anther wall		is				
	broadly perform the function of		(A) In-vivo germinati				
	(A) Protection only(B) Dehiscence and nutrition		(B) In-vitro germinati(C) Precocious germinati				
	(C) Protection and dehiscence of anther		(D) Both (A) and (B)	Ination			
	(D) Nutrition and protection						
		12.	Pistils of Hibiscus flo	•			
5.	Role of tapetum in pollen development is		(A) Multicarpellary a				
	all except (A) Provides nutrition to developing pollen		(B) Multicarpellary sy (C) Monocarpellary o	•			
	grains		(D) Bicarpellary cond				
	(B) Secretes sporopollenin, pollen kit, and						
	compatibility proteins	13.		following is the most			
	(C) Contribution of callase enzyme for		primitive type of ovul	e?			
	separation of pollens from microspore		(A) Orthotropous				
	tetrad (D) Helps in release of pollen grains		(B) Anatropous (C) Circinotropous				
			(D) Campylotropous				
6.	In the fully developed male gametophyte,						
	the number of nuclei is	14.	Basal part of the ovu				
	(A) One (B) Two		(A) Hilum	(B) Micropyle			
	(C) Three (D) Four		(C) Chalaza	(D) Nucellus			

15. 16.	In a majority of angiosperm for the development of fe- male gametophyte, the functional megaspore undergoes how many meiotic and mitotic divisions? (A) One meiotic and three mitotic divisions (B) Zero meiotic and two mitotic divisions (C) Zero meiotic and three mitotic divisions (D) One meiotic and two mitotic divisions (D) One meiotic and two mitotic divisions Ovule is technically equivalent to (A) Megasporangium (B) Female gametophyte (C) Megasporophyll (D) Female gamete	24.	 Identify the following statement as true (T) or false (F), and choose the correct option. A. Bees are the most common insect pollinating agents. B. The flower pollinated by flies and beetles secrets foul odors. C. Plants provide no advantage to insect in terms of rewards. D. Yucca and Pronuba moth cannot complete their life cycle without each other. (A) A-T; B-T; C-F; D-T (B) A-T; B-F; C-F; D-T (C) A-T; B-F; C-T; D-F (D) A-F; B-T; C-T; D-F
17.	 Filiform apparatus (A) Are finger-like projections (B) Direct the pollen tube growth inside the embryo sac (C) Are special cellular thickenings present at micropylar tip of synergids (D) All of the above 	25.	Identify the statements that are true for anemophilous flowers (a) Pollen grains are light and sticky (b) They possess large feathery stigma. (c) They are not very colorful and do not
18.	How many in embryo <mark>sac of the</mark>		produce nectar.
	angiosperm are surrounded by cell walls?		(d) They have many ovules in each ovary.
	(A) 8 (B) 7 (C) 6 (D) 4		(A) (a), (b), and (c) (B) (a), (b), and (d)
19.	Which of the following structures is not		(C) (b) and (e) (D) (b), (c), and (d)
	associated with ovule in angiosperm?		
	(A) Integument (B) Funicle	26.	Outbreeding device which prevents both
	(C) Micropyle (D <mark>) Tape</mark> tum		autogamy and geitonogamy is
			(A) Being monoecious as in date palm
20.	In a female gametophyte,		(B) Self incompatibility as in tobacco
	is the mother cell of endosperm. (A) Egg cell (B) Central cell		(C) Being dioecious as in papaya
	(C) Antipodals (D) Synergids		(D) Being monocliny as in cucumber
	(c) /	27.	Contrivance for self-pollination/autogamy
21.	How many megaspore mother cells are		is
	required to produce 100 polygonum-type		(A) Homogamy
	embryo sacs?		(B) Bisexuality
	(A) 25 (B) 50 (C) 100 (D) 75		(C) Cleistogamy
22.	Term pollination signifies		(D) All of the above
	(A) Dehiscence of anther	28.	Go through the following points:
	(B) The transfer of pollen grains from		I. Dicliny II. Dichogamy
	anther to stigma		III. Self-incompatibility IV. Heterostyly
	(C) Formation of pollinia		The above contrivances prevent
	(D) Opening of floral bud		(A) Autogamy (B) Xenogamy
23.	Both chasmogamous and cleistogamous		(C) Cross-pollination (D) Geitonogamy
	flowers are produced by	29.	Even in the absence of pollinating agents,
	(A) Oxalis and Viola		seed setting is assured in
	(B) Arachis and Zea mays		-
	(C) Bean and Vallisneria		(A) Papaya (B) Cucumber (C) Salvia (D) Commellina
	(D) Commelina and bamboo		
			PG #2

- 30 In Vallisneria (A) Female flowers show long, coiled pedicel (B) Male flowers are released on the surface of water (C) Pollen grains are released on the surface of water (D) All of the above 31. Which of the following is a marine hydrophilous flower? (A) Vallisneria (B) Hydrilla (C) Zostera (D) Water hyacinth 32. The part of gynoecium that determines the compatible nature of pollen is (A) Stigma (B) Style (C) Ovary (D) Secondary nucleus of embryo sac 33. Which of the following is a vestigial structure and soon degenerates? (A) Pollen cytoplasm (B) Generative cell (C) Pollen tube (D) Tube nucleus 34. Which of the following is required for pollen germina- tion? (A) Malic acid (B) B-Ca-inositol sugar complex (C) K^{+} and protein (D) Citric acid 35. Angiosperms differ from other plants of plant kingdom in having (A) Syngamy (B) Triple fusion (C) Double fertilization (D) Both (B) and (C) (SECTION-B) 36. Double fertilization was first discovered in 1898 in Lilium and Fritillaria by (A) Nawaschin (B) Strasburger (C) Amici (D) Focke 37. Pollen tube after reaching the ovary generally enters the ovule through the (A) Nucleus (B) Integument
 - (C) Chalaza (D) Micropyle

- 38. When pollen tube enters by micropyle, then the process is called

 (A) Mesogamy
 (B) Porogamy
 (C) Chalazogamy
 (D) Pseudogamy

 39. Pollen-pistil interaction includes all the events from pollen deposition on stigma until

 (A) Pollen tubes are formed
 (B) Pollen tube enters the ovary
 (C) Pollen tube enters the ovule
 (D) Male gametes are formed
- **40.** Pollen tube wall is made up of
 - (A) Pectocellulose
 - (B) Hemicellulose and pectin
 - (C) Sporopollenin ald
 - (D) Cellulose and sporopollenin

41. By looking into the ploidy of given structures, find the ploidy of ♂ and ♀ plants, respectively. Nucellus: 4N; PEN: 6N
(A) 2N, 4N
(B) 4N, 4N

- (C) 6N, 2N (D) 4N, 2N
- 42. The pollen tube is guided to the micropyle end of ovule by
 (A) Endothelium (B) Obturator
 (C) Style (D) Strophiole
- **43.** Formation of embryo from zygote includes all except
 - (A) Meiosis
 - (B) Cell differentiation
 - (C) Equational division
 - (D) Mitosis

44. Endosperm development in angiosperms (A) Proceeds the development of embryo

- (B) Is mostly of free nuclear type
- (C) Can occur even before fertilization
- (D) Both (A) and (B)
- **45.** Dormancy of seed is
 - (A) State of inactivity
 - (B) State of activity
 - (C) Ability to germinate
 - (D) Viability of seeds

- **46.** Development of endosperm precedes the development of embryo because
 - (A) Endosperm is haploid
 - (B) Endosperm is a product of triple fusion(C) Endosperm is nutritive to developing
 - embryo

(D) It is a pre-fertilization tissue

47. Which of the following is not the adaptive strategy for seed?

(A) Seed cannot be stored for longer duration

(B) Ensure the continuity of race from generation to generation

(C) Have sufficient food reserve for young seedling

(D) Being a product of sexual reproduction, they generate new genetic variations

- **48.** Epiblast in monocot embryo is considered as
 - (A) Single-celled suspensor
 - (B) Covering of embryo
 - (C) Nutritive tissue
 - (D) Rudimentary cotyledon
- 49. The crucial feature (s) that help in storage of seeds that can be used as food throughout the year and to raise crops in next season is/are
 (A) Dehydration
 - (B) Dormancy
 - (C) Dispersal to new habitat
 - (D) Both (A) and (B)
- 50. Production of apomictic embryo from cells of nucellus or integument is called (A) Parthenocarpy
 - (B) Sporophytic budding
 - (C) Adventitive embryony
 - (D) All except (A)

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