EXERCISE

1.	Which of the followir (1) Shisham (3) <i>Pinus</i>	ng is monocarpic plant :- (2) Mango (4) Bamboo	10.	What type of ovule is fo (1) Orthotropous (3) Anatropous	ound in <i>Capsella</i> - (2) Campylotropous (4) Hemitropous				
2.	Which part of the rep both enzyme & horm (1) Archesporium (3) Tapetum	productive structure produces none (2) Middle layer (4) Endothecium	11.	Perisperm is (1) Persistant nucellus in seed (2) Ovule wall (3) Ovule coat					
3.	anther wall. (2) Modified endothe (3) Outer most lay modification	and is the inner most layer of cium of anther wall yer of sporogenous tissue and is the inner most layer of	12.	(4) Fossil of haustoria Anatropous (Resupinate) type of ovule is :- (1) Straight (2) Inverted (3) Transverse (4) Coiled Which of the following types of embryosac is mos found in Angiosperm (1) Bisporic polygonum type (2) Tetrasporic type					
4.	Example of polypangiosperm plant is (1) Perisperm (3) Tapetum	(2) Embryo (4) Placenta	14.	(3) Monosporic - onagrad type(4) Monosporic - polygonum type'Callase' enzyme which dissolve callose of tetrad of microspores to separate 4 microspores is provided					
5.	How many cells or male gametophyte of (1) One (3) Three	nuclei are present in mature of <i>Capsella</i> (2) Two (4) Many		by:- (1) Pollen grains (3) Tapetum	(2) Middle layer (4) Endothecium				
6.	produced by the mal (1) One,. multi cilliate (2) Two, biciliated		15. 16.	The primary endosperm nucleus in Polygonum type of embryosac is :- (1) Haploid (2) Diploid (3) Triploid (4) Tetraploid In Angioperms all the four microspores of tetrac					
7.	(3) Two, multi ciliated(4) Two, non motileEssential whorls of a			are covered by a layer which is made up of : (1) Pectocellulose (2) Callose (3) Cellulose (4) Sporopollenin					
	(1) Calyx and Corolla(2) Corolla and Gyno(3) Androecium and (4) All of the above	a pecium	17.						
8.	Main function of end (1) Mechanical (3) Dehiscence	othecium (in anther) is :- (2) Nutritive (4) Storage	18.	(4) Asteraceae That haploid cell which divides by mitosis to form embryosac is:-					
9.	Which one is female (1) Embryo (3) Endosperm	gametophyte (2) Embryosac (4) Pistil	(1) Megaspore mother cell						

SEXUAL REPRODUCTION IN FLOWERING PLANTS

- **19.** Pollen grains are able to withstand extremes of temperature and dessication because their exine is composed of :-
 - (1) Cutin
- (2) Suberin
- (3) Sporopollenin
- (4) Callose
- **20.** Which structure of the ovule is diploid :-
 - (1) Nucellus
 - (2) Integuments
 - (3) Sec. nucleus
 - (4) All of the above
- 21. Autogamy means
 - (1) Transfer of pollen from anthers to stigma of the same flowers
 - (2) Transfer of pollen from one flowers to another on the different plant
 - (3) Occurrence of male and female sex organ in the same flowers
 - (4) Germination of pollen
- **22.** Which of the following promotes pollen germination and tube growth
 - (1) Starch
- (2) Boron
- (3) Calcium
- (4) Potassium
- **23.** After fertilization the outer integument of ovule changes into -
 - (1) Testa
- (2) Tegmen

(3) Fruit

- (4) Seed
- **24.** After fertilization the seed is developed from
 - (1) Ovule
- (2) Ovary
- (3) Nucellus
- (4) Endosperm
- **25.** Double fertilization means
 - (1) Fusion of male gamete and ovum
 - (2) Fusion of two polar bodies
 - (3) A male gamete fused with egg and second male gamete fused with secondary nucleus
 - (4) All of the above

- **26.** The fusion product of secondary nucleus and male gamete is
 - (1) Nucellus
 - (2) Primary endosperm nucleus
 - (3) Zygote
 - (4) Secondary nucleus
- **27.** Water of coconut is
 - (1) Endosperm
- (2) Nucellus
- (3) Endocarp
- (4) Mesocarp
- 28. Adventive embryony in Citrus is due to:
 - (1) Nucellus
- (2) Integuments
- (3) Zygotic embryo
- (4) Fertilized egg
- **29.** The aleurone layer in maize grain is specially rich in :-
 - (1) Protein
- (2) Starch
- (3) Lipids
- (4) Auxins
- 30. Anthesis is a phenomenon which refers to-
 - (1) Formation of pollen
 - (2) Development of anther
 - (3) Opening of flower bud
 - (4) Reception of pollen by stigma
- **31.** When the pollens of one flower falls on the stigma of another flower of the same plant then genetically it is known as:-
 - (1) Cleistogamy
- (2) Allogamy
- (3) Autogamy
- (4) Dichogamy
- **32.** Entry of pollen tube through micropyle is called:
 - (1) Porogamy
- (2) Syngamy
- (3) Chalazogamy
- (4) Mesogamy
- **33.** Endosperm of angiosperm is :-
 - (1) 2n
- (2) 3n
- (3) n
- (4) 4n

ANSWER KEY

Que.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Ans.	4	3	1	3	3	4	3	3	2	2	1	2	4	3	3
Que.	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Ans.	2	1	3	3	4	1	2	1	1	3	2	1	1	1	3
Que.	31	32	33												
Ans	3	1	2												