TELANGANA UNIVERSITY

S.S.R. DEGREE COLLEGE, NIZAMABAD (C.C:5029) II SEMESTER INTERNAL ASSESSMENT-II EXAMINATIONS

DEPARTMENT OF BOTANY

PAPER-II: GYMNOSPERMS AND EMBRYOLOGY QUESTION BANK

I. Multiple Choice Que	estions
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10 X 1/2 = 05 Marks

1.	Male gametophyte of angiosperms is shed as (a) four celled pollen grain (b) three celled pollen grain (c) microspore mother cell (d) and	(ther)
2.	Lower end of the embryonal axis in monocots is enclosed within (a) scutellum (b) coleorhiza (c) plumule (d) radicle	()
3.	What is the process of formation of zygote to an embryo (a) Fertilization (b) Syngamy (c) Embryogenesis (d) Blastosis	()
4.	When a diploid female plant is crossed with a tetraploid male, the ploidy of endosperm cells in to seed is (a) tetraploidy (b) pentaploidy (c) diploidy(d) triploidy.	he r (esul	ting)
5.	Type of placentation in which ovary is syncarpousunilocular and ovules are on sutures is called (a) marginal placentation (b) superficial placentation (c) apical placentation (d) parietal place	(ntat	ion)
6.	Ovule is straight with funiculus, embryo sac, chalaza and micropyle lying on one straight line. It is (a) orthotropous (b) anatropous (c) campylotropous (d) amphitropous.	s ()
7.	Which of the following pair have haploid structures? a) nucellus and antipodal cells (b) antipodal cells and egg cell (c) antipodal cells and megaspore mother cell (d) nucellus and primary endosperm nucleus	()
8.	Female gametophyte of angiosperms is represented by (a) ovule (b) megaspore mother cell (c) embryo sac (d) nucellus	()
9.	Generative cell was destroyed by laser but a normal pollen tube was still formed because (a) vegetative cell is not damaged. (b) contents of killed generative cell stimulate pollen grouped beam stimulates growth of pollen tube (d) the region of emergence of pollen tube is not harmed		h (c)) lase
10.	Development of an organism from female gamete/egg without involving fertilization is (a) adventitiveembryony (b) polyembryony (c) parthenocarpy (d) parthenoge	(nesi	S)
11.	Flowers with both androecium and gynoecium are called (a) Bisexual flowers (b) Anther (c)Stamens (d) Unisexual flowers	(Α)
12.	The transfer of pollen from the anther to stigma is called (a). Pollination (b)Fertilization (c) Adoption (d) 4. Diffusion	(Α)

13	(a) Adoption (b) Excretion (c) Fertilization (d) Regeneration	(С	,
14	. The two nuclei at the end of the pollen tube are called (a) Tube nucleus and a generative nucleus (b) Sperm and ovum (c) Generative nucleus and stigma (d) Tube nucleus and sperm	(Α)
15	. Generative nucleus divides forming (a)1. 2 male nuclei (b) 2. 3 male nuclei (c)3. 2 female nuclei (d) 4. 3 female nuclei	(Α)
16	. Embryo sac is located inside the (a) Stigma (b) Ovule (c) Micropyle (d) Style	(В)
17	. One nucleus of the pollen tube and secondary nucleus of the ovum grow into (a)Stigma (b) Endosperm (c) Anther (d)Stamen	(В)
18	. The male reproductive parts of a flower, the stamens, are collectively known as (a)Androecium (b) Filament (c) Anther (d) Gynoecium	(Α)
19	. The other name for gynoecium is (a) Pistil (b) Stigma (c) Androecium (d) Style	(Α)
20	. Functional megaspore in a flowering plant develops into (a)Endosperm (b) Ovule (c) Embryo-sac (d) Embryo	(С)
II. Fill	in the Blanks 10 X 1/2 = 05	5 M	arks	
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1. 2. 3. 4. 5. 6. 7.	Beneath the epidermis	is 		_

11. Which of the following is similar to autogamy, but requires pollinators	
12. What is the function of the filiform apparatus	
13. A mass of nutritive material outside the embryo sac is called	
14. Which of the following statements is correct	
15. Which of the following fruit is produced by parthenocarpy	
16. The process of formation of seeds without fertilization in flowering plants is	s known as
17. Functional megaspore in an angiosperm develops into	
18. Rewards and attractants are required for	
19. A dioecious flowering plant prevents	
20. Parthenogenesis is	
III. Short answer questions1. Arrangement of microspores/pollen grains	5X2=10 Marks
2. Discharge of male gametes from pollen tube	
3. Parts of the ovule	
4. Development of the Endosperm	
5. Syngamy- fusion of gametes	
IV. Assignment	1X 5 =5 Marks