Government Zirtiri Residential Science College					
Subject	Subject : Botany				
Paper name	aper name : Pteridophytes, Gymnosperms, Palaebotany, Palynology				
Paper No	Paper No : BOT/VI/CC/17				
Semester	: VI Semester				
A. Multiple ch	noice questions				
1. Calamites b	belongs to the class				
(a) Lycopsi	•	a (c) Pteropsida	(d) Psilopsida		
2. Sporocarp i	s formed in				
(a) Adiant	um (b) Ophioglossi	um (c) Lepidodendron	(d) Marselia		
	6 6	Ũ	ween Gymnosperms and Angiosperm		
(a) Ginkgo	bales (b) Cyca	adales (c) Gnetales	(d) Coniferales		
4. <i>Marselia</i> is	9				
(a) Homosporic Pteridophyte (b) Heterosporic Pteridophyte					
(b) Non-Sporic Pteridophyte (d) Seeded					
(0) 110h 2p		.)			
5. Adiantum b	elongs to class				
(a) Pteropsi	ida (b) Lycopsida	(c) Sphenopsida	(d) Psilopsida		
	of the following is called M	laiden hair tree			
(a) Ginkgo	(b) Taxus	(c) Ephedra	(d) None of the above		
	lvanced order in Gymnospe				
(a) Cycada	les (b) Coniferales	(c) Gnetales	(d) Taxales		

- 8. Ephedra is

  (a) Monoecious
  (b) Dioecious
  (c) Usually monoecious occasionally dioecious
- 9. Which gymnosperm has leaves like Adiantum?<br/>(a) Ginkgo(b) Gnetum(c) Cycas(d) A.raucaria
- 10. Which of them is not woody climber?(a) Gnetum gnemon(b) Gnetum montanum(c) Gnetum latifolia(d) Gnetum ula

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<ul><li>11. Gymnosperm do not</li><li>(a) Seeds</li></ul>	have (b) Fruits	(c) Leaves	(d) None of the above
<ul><li>12. All members of Gym</li><li>(a) Heterosporous</li></ul>	nopsperms are (b) Homosporous	(c) Both (a) & (b)	(d) None of the above
<ul><li>13. Megasporangium is a</li><li>(a) Pollen sac</li></ul>	a/an (b) Ovule	(c) Seed	(d) Venter
<ul><li>14. The order Coniferale</li><li>(a) 5 genera</li></ul>	s is represented by (b) 7 genera	(c) 11 genera	(d) 13 genera
<ul><li>15. The point of attachment</li><li>(a) Chalaza</li></ul>	ent of ovule to the fun (b) Raphe	icle is known as (c) Hilum	(d) Micropyle
<ul><li>16. Cordaites belongs to</li><li>(a) Coniferophyta</li></ul>	class (b) Cycadophyta	(c) Charophyta	(d) Phaeophyta
17. Which of the followi ( <i>a</i> ) Ephedra	ng is called living foss (b) <i>Pinus</i>	sil (c) <i>Cycas</i>	(d) Ginkgo
<ol> <li>18. Which Gymnosperm</li> <li>(a) Cycadofilicales</li> </ol>	order includes all foss (b) Cycadales	sil representatives (c) Gnetales	(d) Coniferales
<ul><li>19. What is the longest p</li><li>(a) Pre-Cambian tim</li></ul>	•	c era (c) Mesozoi	ic era (d) Cenoezoic era
<ul> <li>20. The Geological time scale is Subdivided into 4 groups. List them beginning with the largest</li> <li>(a) Eons, periods, epoch, eras,</li> <li>(b) Epoch, periods, eras, eons</li> <li>(c) Eons, eras, periods, epoch</li> <li>(d) Eons, eras, periods, epoch</li> </ul>			
21.The transfer of pollen as a)self reproduction	grains from anther to b) cross reproduce		flowers in different plants is known
c)self pollination 22. Pollen allergy is mai	d)cross pollinati		
a) Brain c) Glands	<ul><li>b)Immune system</li><li>c) Cellular activity</li></ul>		
<ul><li>23. Pollination through</li><li>a) Anemophily</li></ul>	b) entomophily		du.in

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c) Hydrophily	c) None of the above

24. A typical example of self pollination is

a) Wheat	b) Rice
c) Cotton	d) Maize

25. Pollen allergy symptoms most often include:

a) Highly fever	b) runny nose and nasal congestion
c) stomach irritation	d) headache

## **Answer Keys**

1. (b) 2. (d) 3. (c) 4. (b) 5. (a) 6. (a) 7. (c) 8. (d) 9. (a) 10. (a) 11. (b) 12. (a) 13. (b) 14. (d) 15. (c) 16. (A) 17. (c) 18. (a) 19. (b) 20. (d) 21. (d) 22. (b) 23. (a) 24. (d) 25. (b)

## FILL IN THE BLANKS

- 1. *Rhynia* is \_\_\_\_\_ plant.
- 2. *Rhynia* was described by \_\_\_\_\_
- 3. Young leaves of *Marsilea* show \_\_\_\_\_\_ venation.
- 4. Gymnosperms originated in \_\_\_\_\_
- 5. The type of polyembryony present in *Ephedra* is \_\_\_\_\_
- 6. The archegonial neck of \_\_\_\_\_\_ is the longest among the Gymnosperms.'
- 7. A total of \_\_\_\_\_\_ genera and \_\_\_\_\_\_ species of Gymnosperms occur in India
- 8. The female gametophyte is contained within a structure called \_\_\_\_\_
- 9. Gymnosperm typically have \_\_\_\_\_ integument
- 10. The age of Gymnosperm is \_\_\_\_\_

11. \_\_\_\_\_\_ are the longest subdivision of Geological time scale.

12. Paleobotany is the branch of \_\_\_\_\_

13. \_\_\_\_\_\_flowers are usually brightly coloured and scented and often secrete nectar.

14. Morphology( size, shape and exine thickness) of \_\_\_\_\_ can be used for identification of plant species.

15.Intine of pollen grain composed\_\_\_\_\_ and protein

## Answer Keys

1.Fossil	2. Kidston and Lang	3.Circinate	4.Palaezoic era	5. Embryosac	polyembryony
6.Ephedra	7.16 & 53	8. Archegoniu	ım 9. One	10. Mesozoic	era
11. Eons	12. Paleontology or F	aleobiology	13.Entomophilous	14. Pollen	15. Lipids