Subject:

Botany

Paper :		IX (Pteridophyta, Gymnosperm, Paleobotany and Palynology)				
Paper no: Semester :		BOT/VI/ CC/ 17				
		VI				
A.	Multi	iple choice				
Tic	$k(\sqrt{)}$ the $\sqrt{(}$	correct answer in the b	prackets provided:			
		UNI	$\Gamma - I$			
1. \$	Sporocarp	is formed in				
	(a) <i>Ma</i>	arsilea	()			
	(b) <i>Op</i>	phioglossum	()			
	(c) Le	pidodendron	()			
	(d) <i>Ad</i>	iantum	()			
2. 1	Maiden ha	air fern is				
	(a) <i>Op</i>	phioglossum	()			
	(b) <i>Ad</i>	iantum	()			
	(c) <i>Ma</i>	arsilea	()			
	(d) <i>Rh</i>	ynia	()			
3. (Circinate	venation is absent in				
	(a) <i>Ad</i>	iantum	()			
	(b) <i>Ma</i>	arsilea	()			
	(c) <i>Ca</i>	lamites	()			
	(d) <i>Op</i>	hioglossum	()			
4	Aerial axe	s are terminated with	sporangia in			
	(a) Ca	lamites	()			
	(b) <i>Le</i> ₁	pidodendron	()			
	(c) Rh	ynia	()			
	(d) <i>Ma</i>	ursilea	()			
5.]	Homospoi	cous type of spore for	nation is found in			
	(a) <i>Ad</i>	iantum	()			
	(b) <i>Ma</i>	ırsilea	()			
	(c) Le	pidodendron	()			
	(d) <i>Op</i>	hioglossum	()			
UN	IIT – II					
6.		ne of the following is	called maiden hair fern			
		nkgo	()			
	(b) <i>Ta</i> .	xus	()			

		Government zirtiri kesidentiai Science College
	(c) Ephedra	()
	(d) None of the above	()
7. A	ll the members of gymno	osperm are
	(a) Heterosporous	()
	(b) Homosporous	()
	(c) Both (a) and)b)	()
	(d) None of the above	
8. T	he longest archegonial ne	eck among the gymnosperm is found in
	(a) Ginkgo	()
	(b) Taxus	()
	(c) Ephedra	()
	(d) Gnetum	()
9. W	hich one of the following	g gymnosperm is considered to be a living fossil?
	(a) Pinus roxburghii	()
	(b) Taxus baccata	()
	(c) (c) Ginkgo biloba	()
	(d) Gnetum ula	()
10.	Ephedra belongs to cla	ass
	(a) Cycadopsida	()
	(b) Gnetopsida	()
	(c) Coniferopsida	()
	(d) None of the above	()
UNI	T - III	
11. N	Majority of Gymnosperm	
	a) Tropical regions	
	b) Temperate regions	()
	c) Arid region	()
	d) Semi arid region	()
12.	Gymnosperm is consider	ered to be evolved from
	a) Algae	()
	b) Bryophyta	()
	c) Pteridophyta	()
	d) Angiosperm	()
13.	Taxol obtained from the	ne bark of <i>Taxus</i> is used for
	a) Decoration purposes	()
	b) making wine	()
	c) Treatment of cold and	d cough ()
	d) cancer treatment	()

14.	Megasporophyll is the term used in Gymnosperm to denote
	a) Carpel ()
	b) Stamens ()
	c) Leaves ()
	d) Female cone ()
15.	Ovule of <i>Cycas</i> is
	a) Orthotropous and long stalked ()
	b) Orthotropous and short stalked ()
	c) Anatropous and long stalked ()
	d) Anatropous and short stalked ()
UNI	T - IV
16.	Which of the following is an example of a trace fossil?
	a) Leaf ()
	b) Foot print ()
	c) Skeleton ()
	d) Tribolite ()
17	Which of the fellowing represent the longest time region 2
17.	
	a) Precambrium ()
	b) Paleozoic ()
	c) Mesozoic ()
	d) Cenozoic ()
18.	The upper Gondwana is characterised by
	a) Predominance of <i>Glossopteris</i> flora ()
	b) Accession of <i>Dicroidium</i> and declining of <i>Glossopteris</i> ()
	c) Arrival of <i>Ptilophyllum</i> ()
	d) Declining of <i>Ptilophyllum</i> ()
19.	The root of Cordaites is known as
	a) Amyelon ()
	b) Mesoxylon ()
	c) Cordaianthus ()
	d) Cardiocarpus ()
20.	The 'age of Gymnosperms' is
	a) Precambrium ()
	b) Paleozoic ()
	c) Mesozoic ()
	d) Cenozoic ()

OIVII - V	UNIT	-V
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21.	At maturity, majority of pollen grains are dispersed at a) 1 celled stage ()						
	b) 2 celled stage () c) 3 celled stage ()						
	c) 3 celled stage ()						
	d) 4 celled stage ()						
22.	Anemophillous plants produce						
	a) numerous, small, dry, smooth, and light pollen grains ()						
	b) numerous, large, sticky, smooth, and light pollen grains	()				
	c) large, dry, sticky and light pollen grains ()					
	d) few, small, dry, smooth, and heavy pollen grains	()				
23.	Pollen grains has						
	a) No wall ()						
	b) Intine () c) Exine ()						
	d) Both intine and exine ()						
24.	Pollen grains may be						
	a) Apolar ()						
	b) Polar () c) Either apolar or polar ()						
	c) Either apolar or polar ()						
	d) All of the above ()						
25.	The symptoms of Pollen Allergy are						
	1) Sickness						
	2)Runny nose.						
	3) Itchiness of throat						
	4) Sneezing						
	a) 1 & 3 ()						
	a) 1 & 3 () b) 2,3,4 () c) 2,4 () d) 1,2 ()						
	d) 12 ()						
	u) 1,2 ()						
Fill i	in the blanks:						
Unit	1						
1. G	eological occurrence of Rhynia is	per	iod				
2. <i>M</i>	Marsilea belongs to class						
3. In	<i>Calamites</i> spores are provide with						

Unit 2
 According to K.R. Sporne classification of gymnosperm, there are
Unit 3
7. Archegonia are not formed in
8. Sago a rich source ofstarch is obtained from
9. Archegonia of has the longest and largest neck among gymnosperm
Unit 4
10are known as Seed ferns
11. Seed of <i>Lyginopteris</i> is known as
12 are petrified sherical balls containing plant parts
Unit 5
13. The main purpose of pollen production is for
14are formed when paired pollen grains are arranged at right angle to each other
15. Pollen grains are produced in gymnosperm.
KEY ANSWERS
Unit 1

- 1. (a) *Marsilea*
- 2. (b) *Adiantum*.
- 3. (d) *Ophioglossum*
- 4. (c) Rhynia
- 5. (d) *Ophioglossum*

Unit 2

- 6. (a) Ginkgo
- 7. (a) Heterosporous.
- 8. (c) *Ephedra*.
- 9. (c) Ginkgo biloba
- 10. (b) Gnetopsida

Unit 3

- 11. b)
- 12. c)
- 13. d)
- 14. a)
- 15 b)

Unit 4

- 16. b)
- 17. a)
- 18. c)
- 19. a)
- 20. c)

Unit 5

- 21. b)
- 22. b)
- 23. d)
- 24. c)
- 25. b)

Fill in the blanks:

Unit 1

- 1. Lower Devonian.
- 2. Pteropsida
- 3. Elaters

Unit 2

- 4. 8 orders
- 5. 4 months
- 6. Microspore, Megaspore.

Unit 3

- 7. *Gnetum*
- 8. Cycas
- 9. Ephedra

Unit 4

- 10. Cycadofilicales
- 11. Lagenostoma lomaxii
- 12. Coal balls

Unit 5

- 13. reproduction and multiplication
- 14. Decussate terad
- 15. Male cone