REV-01 BSB/08/13

B.Sc. BOTANY FIRST SEMESTER ARCHEGONIATES AND PALAEOBOTANY BSB-101

[USE OMR SHEET FOR OBJECTIVE PART]

Duration: 3 hrs.

Full Marks: 70

Objective)

Time: 30 mins.

Marks: 20 1×20=20

2023/12

SET

A

Choose the correct answer from the following:

1. Psedoelaters are found in the capsules of:

- a. Anthoceros
- c. Marchantia

- b. Riccia
- d. Polytrichum
- 2. The conductive tissue differentiation of higher plants is indicated by:
 - a. Seta of Sphegnum
- b. Apophysis of Mossd. Calyptra of Riccia
- c. Sterile columella of Anthoceros
- Archesporium is:
 - A diploid tissue responsible for the formation of sporogenous tissue
 - A haploid tissue responsible for the formation of gametophytic cells
- b. A part of archegonia
- d. None of the above
- 4. Venter is the part of:
 - a. Sporogonium
 - c. Archegonium

- b. Antheridium
- d. Sporangium
- 5. Among the following which is not characteristic feature of Bryophyta?
 - a. Motile sperms
 - c. Presence of archegonium

Strobili or cones are found in:

- b. Water essential for fertilization
- **d.** Photosynthetically independent sporophyte

formed in pteridophytes

b. A gametophytic free living structure

d. A primitive structure formed after

fertilization in pteridophytes

- 6. A prothallus is:
 - A structure in pteridophyata formed before thallus developed
 - A sporophytic free living structure formed in pteridophytes
 - - b. Equisetum
- c. Isoetes

a. Marchantia

- Which is rootless fern? a. Pteris
- d. Pteris
- b. Dryopterisd. Adiantum
- 9. Per sporophyll only one sporangia formed in:
 - a. Selaginella

c. Salvinia

b. Fern

c. Pinus

d. All of the above

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10	 Which of the follo i) Selaginella 	wing are homospor iii) Salvinia	ous pteridophy ii) Lycopodi	tes? um	iv) Equisetum
	a. i and ii onlyc. i and iv only		b. ii and d. ii and		
11	The taxon "Gymn a. Classc. Kingdom	osperm" is a:	b. Clad d. Sub-l		
12	 One of the greates a. Exclusion of G c. Exclusion of G 	inetales	b. Exclu	ision of C	gymnosperms is t Cordiatales ennettitales
13	 For gymnosperms Conifers Cycads 	s, the Jurrasic perioc	b. Ging	ko e of the ab	oove
14	 Anomalous secon a. Pinus c. Gnetum 	dary growth is obse	b. Cyca:	; f the abov	ve .
15	5. The process of de a. Microsporoge c. Microgametog	nesis	b. Mega	d: isporoger igametog	
16	a. Ancientb. Fossil	palaeo" means:	b. Rock d. Geol		
17	 Father of Paleobo James Hutton John Douglas 		b. Birba d. Adol		odore Brongniart
18	8. Which of the follo a. Soft tissues c. Pollens	owing structures car	be properly pro b. Jelly d. Hard	fish	y fossilization?
19	 Bennettitales beca a. Cretaceous c. Triassic 	nme entirely extinct	in most areas du b. Prem d. Juras	iam	late:
20	0. Cordaitales havea. Conifersc. Pines	reproductive cone-l	ike structure res b. Cyca d. Gnet	ds	

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(<u>Descriptive</u>)

Tin	Marks: 50	
	[Answer question no.1 & any four (4) from the rest]	
1.	Write the economic importance of Bryophyte.	10
2.	Write the comparative morphological characters of <i>Hepaticopsida</i> and <i>Bryopsida</i> group with proper examples.	10
3.	What is stele? Write about the different types of stele in pteridophytes with proper example.	2+8=10
4.	Write short notes on: a) Primitive characters of <i>Psilotun</i> b) Sporophytic structure of Polytrichum	5+5=10
5.	Write short notes on: a) Classification of gymnosperms b) Primitive characters of <i>Gingko</i>	5×2=10
6.	With proper diagrams, discuss on the reproduction, fertilization and pollination of <i>Gnetum</i> .	2+8=10
7.	What is paleobotany? Write note on the different types of fossils.	3+7=10
8.	Write note on the general account and reproduction of: a) Lepidodendron b) Williamsonia	5×2=10