Question Paper Code: 5692

M.Sc. (Semester-II) Examination, 2018

(Regular & Back Paper / Improvement)

BOTANY

[Fifth Paper]

(Pteridophytes)

Time: Three Hours [Maximum Marks: 70

Note: Answer five questions in all. Question No.1 is compulsory. Besides this, one question is to be attempted from each unit.

- 1. Write in brief about **any ten** of the following:[3x10=30]
 - (a) Axis of Quillwort
 - (b) Characteristic feature of Azolla leaves
 - (c) Synangium
 - (d) False indusium
 - (e) Telome
 - (f) Spike of Adder's tongue

5692/100 (1) [P.T.O.]

	(g)	Petrifaction fossil			(b)	Economically important pteridophytes.	
	(h)	(h) Sporangiophores of Equisetum		UNIT-III			
	(i) (j)	Calamites Apospory		6.		ment upon the discovery of Rhynia . parative account of its both species.	Give a
	(k) (l)	Circinate venation Indusium		7.	Write	short notes on any two of the following : [5x2=10
		UNIT-I			(b)	Cheirostrobus	
<u>2</u> .		a detailed account of evolution of pten	. ,		(c)	Zygopteris UNIT-IV	
3.	Write short notes on the following: [5x2=10] (a) Taxonomical significance of fern flora based on		-	8.	Discuss the diversity of sporocarps found in different genera. [10]		
	(b)	the cytological evidences. Characteristic features of new diversity of the cytological evidences.	ions of	9.		Enumerate the distinguishing features and system osition of the following: [5x2= a) Cyathea	
1.	UNIT-II Trace the evolution of stelar system in pteridophytes from the most primitive type of stele. [10]		•		(b)	Lygodium x	
5.	Explai (a)	in the phrase : "Heterospory – pre-requisite for seed	[5x2=10] habit."				
5692/100 (2)				5692/	100	(3)	