## Raja N. L. Khan Women's College (Autonomous) **End Semester Examinations-2022**

BOTANY [PG-CBCS]
[M.Sc] (Theory)
PAPER-BOT 104

## **Pteridohytes and Gymnosperms**

larks: 40	9	Time: 02 Hrs
NIT 1: 1	PTERIDOPHYTES	20
<ul><li>a)</li><li>b)</li><li>c)</li><li>d)</li><li>e)</li><li>f)</li></ul>	Name one eusporangiate and one leptosporangiate fern.  Name two important fossil pteridophytes from Rhynie-chert bed.  Name one extinct and one extant ligulatepteridophyte.  What do you mean by incipient heterospory?  What is the valid new name for <i>Rhynia major</i> ? Who cited this name the Mention two important features of <i>Phylloglossum</i> .	1x4 ne?
a) b) c) d) <b>Answ</b> (a)	Discuss about the stelarevolution in pteridophytes. Characterize Trimerophytopsida. Cite two examples Write a short note on Apospory in Pteridophytes. Give the outline classification of the progymnosperms.  er any one question. Characterize Zosterophyllopsida. Name the important genera be class. Why is the group regarded as the progenitor of Lycopsida.	4+2+2
Answa a)	er any four questions.  Distinguish between bract scale and ovuliferousscale.  What is albuminous cell?  Mention two similarities of <i>Gnetum</i> with gymnosperm.  What is cupule? Where does it occur?	20 1×4
	Answa a) b) c) d) e) f) d) e) f) f) f) fill fill fill fill fill fill	NIT 2: GYMNOSPERMS  Answer any four questions.  a) Distinguish between bract scale and ovuliferousscale. b) What is albuminous cell? c) Mention two similarities of <i>Gnetum</i> with gymnosperm. d) What is cupule? Where does it occur? e) Name one halophytic gymnosperm. f) What is Bars of Sanio or Crassulae?

2.	Answe	er any two questions.	4x2
	a)	Write a note on the global distribution of extant Cycads.	4
	b)	Write briefly about the male fructifications of <i>Glossopteris</i> plant.	4
	c)	Discuss in brief the pre-ovule concept in origin of seed habit.	4
	d)	Write down the medicinal importance of gymnosperms.	4
3.	Answe	er any one question.	1x8
3.	Answe	er any one question.	1x8
	a)	Give the outline classification of gymnosperms proposed by K.R.Sporne	(1965).
		Write down the Class characters.	5+3
	b)	Write a brief account on the geographic distribution of modern conifers.	Write a
		note on gymnosperms as a source of resins.	4+4