Paper / Subject Code: 77207 / Botany: Paper I

[Time: Three Hours]

Q.P. Code :32379

[Marks:100]

	N.]	Please check whether you have got the right question paper. B:1. All questions are compulsory. 2. Figures to the right indicate full marks. 3. Draw neat and labelled diagrams wherever necessary.	
Q.1 <i>A</i>	A) Ch	noose the correct option from the following:	10
		Ramentum of <i>Nephrolepis</i> is i) Unicellular ii) Multicellular iii) Bicellular iv) Tricellular	
	b.	In <i>Nephrolepis</i> , the vascular bundle with xylem in the centre, surrounded by phloem is called i) Centripetal ii) Amphicribal iii) Centrifugal iv) Leptocentric	
	c.	Nephrolepis is plant. i) heterosporous ii) homosporous iii) bisporous iv) tetrasporous	
	d.	The stem of female plant of <i>Cycas</i> shows growth. i) Sympodial ii) Monopodial iii) Centripodial iv) Multipodial	
	e.	is absent in xylem of Gymnosperms. i) Parenchyma ii) Vessels iii) Trachieds iv) Fibres	
	f.	Vascular bundles of <i>Cycas</i> rachis are arranged in form. i) Circular ii) Elongated iii) Elliptical iv) Horse – shoe	
	g.	Multicostate convergent reticulate venation is found in i) Banana ii) Mango iii) Ficus iv) Zizypus	
	h.	stipules are found in <i>Hibiscus rosa-sinensis</i> . i) Adnate ii) Interpetiolar iii) Free lateral iv) Intrapetiolar	
		Monadelphous stamens are found in family. i) Amaryllidaceae ii) Malvaceae iii) Cruciferae iv) Asteraceae	
		Capitulum inflorescence is found in i) Hibiscus ii) Helianthus annus iii) Centella iv) Vinca	

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	Q.P. Code :32379	7,00
Q.1 I	 Answer the following in one sentence: a) Define chemotaxis. b) What is Indusium? c) Mention the functions of scale leaves of <i>Cycas</i>. d) State the method of germination of <i>Cycas</i> seed. e) What are stipules? 	10
Q.2 Ans	wer any two from the following:	20
t C	Describe external morphology of <i>Nephrolepis</i> sporophyte. Explain sexual reproduction of <i>Nephrolepis</i> . Describe advanced types of steles giving suitable examples. Describe internal structure of <i>Nephrolepis</i> rachis.	
Q.3 Ans	wer any two from the following:	20
l C	Describe T.S. of <i>Cycas</i> leaflet. Add a note on its xerophytic adaptations. Give detailed account of megasporophyll of <i>Cycas</i> . Describe secondary growth in <i>Cycas</i> root. Give an account of economic importance of gymnosperms.	
Q.4 Ans	wer any two from the following:	20
ł	Give classification, distinguishing characters, two plants of economic importance and floral formula of family Amaryllidaceae. Describe various types of cymose inflorescence. Describe different types of leaf venations. Explain various types of leaf modifications.	
Q.5 Writ	e short notes on (any four):	20
	Prothallus of Nephrolepis. Sporangium of Nephrolepis. Coralloid roots of Cycas. Phyllotaxy. Distinguishing characters of Malvaceae. Systematic position of Cycas with reasons.	
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