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FEDERAL PUBLIC SERVICE COMMISSION COMPETITIVE EXAMINATION FOR RECRUITMENT TO POSTS IN BPS-17 UNDER THE FEDERAL GOVERNMENT, 2010

Roll Number

BOTANY, PAPER-I

TIME ALLOWED:		30 MINUTES	MAXIMUM MARKS:20
TIME ALLOWED:	(PART-II)	2 HOURS & 30 MINUTES	MAXIMUM MARKS:80

NOTE: (i) First attempt PART-I (MCQ) on separate Answer Sheet which shall be taken back after 30 minutes.

(ii) Overwriting/cutting of the options/answers will not be given credit.

				RT – I (MCQ) MPULSORY)		
Q.1.	Sele	ect the best option/answer an	d fill	in the appropriate box	on the Answer Sheet. (20)	
(i)	The	Green Algae belongs to:				
. /		Cyanochloranta	(b)	Chlorophycophyta	(c) Charophyta	
	(d)	Cryptophycophyta	(e)	None of these		
(ii)	If th	ne gametes and gametangia in			are termed as:	
	(a)	Heterothallic		Homothallic	(c) Isogametes	
	(d)	Anisogametes	(e)	None of these		
(iii)		orophyll 'd' exists in:				
		Pyrrophyta	(b)	Phaeophyta	(c) Cryptophyta	
<i>(</i> : \)		Rhodophyta		None of these		
(iv)	Which of the type of chlorophyll is rare in Xanthophyceae and has been determined in only two of					
	its g	genera:	<i>a</i> >	11 1 11 6 2	() 11 11112	
		chlorophyll 'a'	(b)	chlorophyll 'e'	(c) chlorophyll 'b'	
()	(a)	chlorophyll 'd'	(e)	None of these	£1:1	
(v)	i ne	Axoneme in an algal filament	. IS CC	seven	(c) eleven	
	(a) (d)	five one		None of these	(c) eleven	
(vi)		one antibiotic called "Chlorellin" i				
(VI)	(a)			Spirogyra	(c) Volvox	
	` /	Chlorella		None of these	(c) volvox	
(vii)		akistan, Volvox is found abun			he months of:	
(VII)	(3)	March and April	(h)	May and Juna	(c) November and December	
	(d)	Innuary and Fahruary	(b)	None of these	(c) November and December	
(viii)	Rec	ause of extracting fr	om v	vater and denociting it is	(c) November and December n their walls different species of	
(VIII)	Cha	ra are referred to as "Stone W	orts.	vater and depositing it is	if their wans different species of	
	(a)	Sodium chloride	(b)	Calcium carbonate	(c) Potassium sulphate	
	(d)	Potassium nitrate	(e)	None of these	(c) I ottosium surpitate	
(ix)	Puc	Potassium nitrate <u>cinia graminis</u> causes	in w	heat		
(111)	(a)	Yellow or stripe rust	(b)]	Brown or orange leaf rust	(c) Black or stem rust	
	(d)	Yellow or stripe rust Loose green smut	(e) N	None of these	(c) Dimen of Stem rust	
(x)		zero and one stages of <u>Puccin</u>				
()	(a)	Triticum aestivum	(b)	Hordeum Vulgare	(c) Sorghum Vulgare	
		Triticum aestivum Barberis Vulgaris	(e)	None of these	(1) 11 1 8 11 11 811	
(xi)	A st	able self-supporting association	n of	a is termed as li	chen:	
()	(a)	able self-supporting association bryophyte & a pteridophyte	(b)	mycobiont & a phycobio	ont (c) plant & animal	
	(d)	gymnosperm & angiosperm	(e)	None of these	() 1	
(xii)		isetum is the only living genus	s that	belongs to:		
. /	(a)				(c) Chlorophycophyta	
	(d)	= = =	(e)	None of these		
(xiii)	The	genus Equisetum comprises a	bout	25 species distributed wo	orld-over except in:	
		Eurasia	(b)	North America	(c) South America	
	(d)	Australasia	(e)	None of these	•	
(xiv)	The	members of class Filicinae in	pteri	dophyta date back to	era:	
	(a)	Mesozoic	(b)	Paleozoic	(c) Cenozoic	
	(d)	Cambrian	(e)	None of these		

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(xv)	Mars	silea quadrifolia belongs to the	ne groi	up of plants known as:	
` /	(a)	Lichens		Sedges	(c) Ferns
	(d)	Shrubs	(e)	None of these	
(xvi)		show marked affinities	with	both Pteridophytes and a	ngiosperms:
	(a)	Bryophytes	(b)	Hydrophytes	(c) Gymnosperms
	(d)	Epiphytes	\ /	None of these	
(xvii)		has five leaves in the sp			
	(a)	Pinus longifolia		Pinus excelsa	(c) Pinus roxberghii
	(d)	Pinus wallichiana		None of these	
(xviii)		resting period between pollin			
	(a)	Five to ten months	(b)	Two to three months	(c) One to two months
	(d)	Ten to eleven months			
(xix)		phedra, the oosphore undergo			
	(a)	Zygote		Zygosphore	(c) Endosperm
	(d)	Pro-embryo	· · ·	None of these	
(xx)		ble fertilization is a character			
	(a)	Gymnosperms		Bryophytes	(c) Angiosperms
	(d)	Pteridophytes	(e)	None of these	
				PART – II	
	(i)	PART-II is to be attempted	ed on	the separate Answer Boo	ok.
NOTE:	(ii)	Attempt ONLY FOUR a	nestio	ns from PART-II All au	nestions carry EQUAL marks.
			acoulo	ino monina rate a a. ram qu	testions carry E & crize inarias.
HOIE.	(iii				empted question will not be
NOIE.	(iii				
	`	Extra attempt of any que considered.	estion	or any part of the att	empted question will not be
Q.2. (a)	Clas	Extra attempt of any que considered. sify different groups of algae	based	or any part of the att	mentation. (10)
Q.2. (a) (b)	Clas Writ	e a note on the Economic Im	based portan	or any part of the att	mentation. (10) (10)
Q.2. (a)	Clas Writ Fung	e a note on the Economic Imgi have great impact on our n	based portan	or any part of the att	mentation. (10) constructive and destructive roles
Q.2. (a) (b)	Clas Writ Fung	e a note on the Economic Im	based portan	or any part of the att	mentation. (10) (10)
Q.2. (a) (b) Q.3.	Clas Writ Fung with	Extra attempt of any que considered. sify different groups of algae e a note on the Economic Imgi have great impact on our na special emphasis on agriculture.	based portan ationa	I on their habitat and pignace of Chlorophyta.	mentation. (10) constructive and destructive roles (20)
Q.2. (a) (b)	Clas Writ Fung with	Extra attempt of any que considered. sify different groups of algae e a note on the Economic Imgi have great impact on our na special emphasis on agriculture.	based portan ationa	I on their habitat and pignace of Chlorophyta.	mentation. (10) constructive and destructive roles (20) for humans but also for the entire
Q.2. (a) (b) Q.3. Q.4.	Clas Writ Fung with Wha	e a note on the Economic Im gi have great impact on our n a special emphasis on agricut t are lichens? Explain how I	based portan ationa alture s	d on their habitat and pignace of Chlorophyta. Il economy. Explain their sector. Is are not only beneficial	mentation. (10) (10) constructive and destructive roles (20) for humans but also for the entire (20)
Q.2. (a) (b) Q.3. Q.4. Q.5. (a)	Clas Writ Fung with Wha univ Expl	Extra attempt of any que considered. sify different groups of algae e a note on the Economic Im gi have great impact on our na special emphasis on agricut are lichens? Explain how lerse? ain the general characteristic	based portan ationa alture s ichens	I on their habitat and pignace of Chlorophyta. Il economy. Explain their sector. Is are not only beneficial ryophytes.	mentation. (10) (10) constructive and destructive roles (20) for humans but also for the entire (20) (10)
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