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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
	(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.

		<u>PART – I (MCQ)</u> (COMPULSORY)	
Q.1.	Select the best option/answer	and fill in the appropriate bo	x on the Answer Sheet. (20)
(i)	The Green Algae belongs to:	• •	` ,
(1)	(a) Cyanochloranta	(b) Chlorophycophyta	(c) Charophyta
	(d) Cryptophycophyta	(e) None of these	(c) Charophyta
(ii)		in Fungi are of unequal size, the	ev are termed as:
(11)	(a) Heterothallic	(b) Homothallic	(c) Isogametes
	(d) Anisogametes	(e) None of these	(e) isogumetes
(iii)	Chlorophyll 'd' exists in:	(e) Itone of mese	
()	(a) Pyrrophyta	(b) Phaeophyta	(c) Cryptophyta
	(d) Rhodophyta	(e) None of these	(c) etyptophyta
(iv)		· /	has been determined in only two of
(')	its genera:		,
	(a) chlorophyll 'a'	(b) chlorophyll 'e'	(c) chlorophyll 'b'
	(d) chlorophyll 'd'	(e) None of these	1 2
(v)	The Axoneme in an algal filam		fibrils:
. /	(a) five	(b) seven	(c) eleven
	(d) one	(e) None of these	
(vi)	An antibiotic called "Chlorelling"	n" is derived from:	
	(a) Chara	(b) Spirogyra	(c) Volvox
	(d) Chlorella	(e) None of these	
(vii)		oun <mark>dant</mark> ly in wat <mark>er p</mark> onds <mark>dur</mark> ing	
	(a) March and April	(b) May and June	(c) November and December
	(d) January and February	(e) None of these	
(viii)	Because of extracting	from water and depositing it	in their walls different species of
	Chara are referred to as "Stone		
	(a) Sodium chloride	(b) Calcium carbonate	(c) Potassium sulphate
		(e) None of these	
(ix)	Puccinia graminis causes	in wheat:	
	(a) Yellow or stripe rust	(b) Brown or orange leaf ru	st (c) Black or stem rust
	(a) Loose green smut	(e) None of these	
(x)		cinia graminis are produced on:	
		(b) Hordeum Vulgare	(c) Sorghum Vulgare
	(d) Barberis Vulgaris	(e) None of these	1. 1
(xi)	A stable self-supporting associ	ation of a is termed as	lichen:
	(a) bryophyte & a pteridophy	te (b) mycobiont & a phycol	biont (c) plant & animal
	(d) gymnosperm & angiospe		
(xii)	Equisetum is the only living ge		(a) Chlana hara anhata
	(a) Sphenopsida	(b) Caphalida	(c) Chlorophycophyta
(:::)	(d) Pteropsida	(e) None of these	would arran arracht in .
(xiii)		es about 25 species distributed v (b) North America	
		(e) None of these	(c) South America
(viv)		e in pteridophyta date back to	era:
(xiv)		(b) Paleozoic	(c) Cenozoic
	(a) Mesozoic(d) Cambrian	(e) None of these	(c) Conozoic
	(a) Cambrian	(c) None of these	

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(xv)	Mars (a) (d)	silea quadrifolia belongs to the Lichens Shrubs	(b)	up of plants known as: Sedges None of these	(c) Ferns	
(xvi)	(-)	show marked affinities v			angiosperms:	
, ,	(a)	Bryophytes		Hydrophytes	(c) Gymnosperms	
	(d)	Epiphytes	(e)	None of these		
(xvii)		has five leaves in the spur	r:			
	(a)	Pinus longifolia	(b)	Pinus excelsa	(c) Pinus roxberghii	
	(d)	Pinus wallichiana		None of these		
(xviii)	The	resting period between pollina				
	(a)	Five to ten months	(b)	Two to three months	(c) One to two months	
	(d)	Ten to eleven months				
(xix)	In Ep	phedra, the oosphore undergoe				
	(a)	Zygote		Zygosphore	(c) Endosperm	
	(d)	Pro-embryo		None of these		
(xx)	Doul	ble fertilization is a characteris	stic o	of:		
	(a)	Gymnosperms		Bryophytes	(c) Angiosperms	
	(d)	Pteridophytes	(e)	None of these		
				<u>PART – II</u>		
NOTE:	(i) (ii) (iii	Extra attempt of any que considered.	estion stion	ns from PART-II . All q	uestions carry EQUAL marks. tempted question will not be	
		sify different groups of algae be a note on the Economic Imp			mentation. (10) (10)	
Q.3.		gi have great impact on our na a special emphasis on agricult			r constructive and destructive role: (20)	
Q.4.	Wha univ		hens	s are not only beneficial	for humans but also for the entire (20)	3
		ain the general characteristics e a detailed note on mode of re			(10) (10)	
		uss the structure of strobilus a ain the major resemblances an			nosperms and Pteridophytes. (10)	
Q.7.		ain the mechanism of pollinersal in Angiosperms.	ation	n, fertili <mark>zati</mark> on an <mark>d d</mark> eve	elopment of seed as well as seed (20)	
Q.8.	Write (i)	e short notes on ANY TWO of Rules of botanical nomenclate		following:	(2 x 10)	

Page 2 of 2