FEDERAL PUBLIC SERVICE COMMISSION



COMPETITIVE EXAMINATION FOR RECRUITMENT TO POSTS IN BS-17 UNDER THE FEDERAL GOVERNMENT, 2011

Roll Number

BOTANY, PAPER-I

TIME ALLOWED:		(PART-I MCQs)	30 MINUTES	MAXIMUM MARKS: 20			
THREE HOU	JRS	(PART-II)	2 HOURS & 30 MINUTES	MAXIMUM MARKS: 80			
NOTE: (i)	First attempt PART-I (MCQs) 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> </u>	<u> </u>			

	(PART-I MCQs) (COMPULSORY)							
Q.1.	Sele	ect the best option/answe	r and	fill in the appropriate	box	on the Answer Shee	t.	(1 x 20=20)
(i)	Tiny	plants with silicon cells	are:					
	(a)	Diatoms	(b)	Zooplanktons	(c)	Fungi	(d)	None of these
(ii)	Withania somnifera belongs to the family:							
	(a)	Solanaceae	(b)	Brassicaceae	(c)	Poaceae	(d)	None of these
(iii)	The 1 st root of the seed plant develops from the radical is called:							
	(a)	Tap root	(b)	Aerial root	(c)	Adventitious root	(d)	None of these
(iv)	Mycorrhiza is the symbiotic association between:							
	(a)	Algae and Fungi	(b)	Angiosperms and Fungi				
	(c)	Lichens and Fungi	(d)	None of these				
(v)	New	New Ulva plant after undergoing meiosis produces Zoospores:						
	(a)	Monoflagellated	(b)	Biflagellated	(c)	4-flagellated	(d)	None of these
(vi)	Alternation of generation in Moss is:							
	(a)	Isomorphic	(b)	Heteromorphic	(c)	Absent	(d)	None of these
(vii)	Mos	t primitive family is:						
	(a)	Magnoliaceae	(b)	Poaceae	(c)	Malvaceae	(d)	None of these
(viii)	Laminaria is the example of:							
	(a)	Red Algae	(b)	Brown Algae	(c)	Green Algae	(d)	None of these
(ix)	The chief component of the cell wall of fungi is the:							
	(a)	Pectin	(b)	Chitin	(c)	Lignin	(d)	None of these
(x)	Formation of fruit without fertilization:							
	(a)	Apomixis	(b)	Polyembryony	(c)	Parthenocarpy	(d)	None of these
(xi)	National flower of Pakistan is:							
	(a)	Jasminum	(b)	Cestrum nocturnum	(c)	Pisum sativum	(d)	None of these
(xii)	Zygomycetes have their common name as:							
	(a)	Imperfect Fungi	(b)	Conjugating Fungi	(c)	Sac Fungi	(d)	None of these
(xiii)	i) Filaments of Algae are composed either of distinct cells:							
	(a)	Gametocytes	(b)	Coenocytes	(c)	Heterocysts	(d)	None of these
(xiv)	v) The bryophytes are also called:							
	(a)	Sporogonium	(b)	Amphibians	(c)	Arthrophytes	(d)	None of these Page 1 of 2

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(xv)	The	first plant which develo	ped tr	ue leaves and roots are	e:			
	(a)	Pteropsids	(b)	Lycopsids	(c)	Psilopsids	(d)	None of these
(xvi)	An c	ovule is:						
	(a)	Fertilized seed		(b) Integur	nented	Indehiscent megas	sporan	gium
	(c)	Dehiscent megasporan	gium		(d)	None of these		
(xvii)	An a	ingiosperms the female	gamet	ophyters contain:				
	(a)	1 – several cells	(b)	7 cells only	(c)	3 cells	(d)	None of these
(xviii)	Spor	ophyte of Bryophytes is	s also o	called as:				
	(a)	Sporangium	(b)	Sporogonium	(c)	Prothallus	(d)	None of these
(xix)	One	of the examples of crus	tose li	chen is:				
	(a)	Basidia	(b)	Dermatrocarpus	(c)	All of these	(d)	None of these
(xx)	The	scientific name of Bring	gal is:					
	(a)	Solanum tuberosum			(b)	Solanum melonge	ena	
	(c)	Nicotiana tabaccum			(d)	None of these		
				<u>PART-II</u>	i			
NOT	E:(i)	PART-II is to be at	tempte	ed on separate Answe	r Rook			
11011	(ii)	Attempt ONLY FO	OUR q	uestions from PART	Γ-II. A	ll questions carry	_	
	(iii)	Extra attempt of a considered.	ny quo	estion or any part of	the at	tempted question	will no	ot be
0.1	Daile	fly decaribe the life and	a of D	arroa harta a				(20)
Q.2.	Briefly describe the life cycle of Bryophytes.						(20)	
Q.3.	Writ	e detailed notes on the o	liffere	nt stages of mitosis. I	Oraw di	iagrams.		(20)
Q.4.	Write down the salient features of family Rosaceae and its economic importance.					(20)		
Q.5.	Give detailed note on the life cycle of Angiosperm up to the development of seed.					(20)		
Q.6.	Define tissue. What are meristematic tissues and also classify them on different basis?					(20)		
Q.7.						(20)		
Q.8.		dophytes.	iies oi	Gymnosperms. How	mey d	miei nom Angiosp	Jeiiiis a	(20)
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