

## FEDERAL PUBLIC SERVICE COMMISSION COMPETITIVE EXAMINATION FOR RECRUITMENT TO POSTS IN BS-17 UNDER THE FEDERAL GOVERNMENT, 2014

Roll Number

## **BOTANY, PAPER-I**

TIME AL		(PART-I MCQs)	30 MINUTES	MAXIMUM MARKS: 20		
THREE HOURS(PART-II)2 HOURS & 30 MINUTESMAXIMUM MARKS: 80NOTE:(i)Part-II is to be attempted on the separate Answer Book.(ii)Attempt ONLY FOUR questions from PART-II. ALL questions carry EQUAL marks.(iii)Candidate must write Q. No. in the Answer Book in accordance with Q. No. in the Q. Paper.(iv)No Page/Space be left blank between the answers. All the blank pages of Answer Book must be crossed.(v)Extra attempt of any question or any part of the attempted question will not be considered.						
PART-II						
Q. No. 2.		salient features of ogy and structural orga		ith particular emphasis on (20		
Q. No. 3.	Give an il	llustrated account of li	ife cycle of a smut fungus.	(20		
Q. No. 4.	Define St	ele. Describe its vario	us types along with their evo	olutionary significance. (20		
Q. No. 5.	Write dov	wn a comparative acco	ount of stem anatomy of gyn	nnosperm and angiosperm. (20		
Q. No. 6.	Write down important characters of Musci and discuss evolutionary trends of the group.					
Q. No. 7.	Describe artificial and natural systems of classification of plants by giving merits and demerits of each system.					
Q. No. 8.	(a) An (b) Ec	nomalus Secondary G conomic importance o				

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## **BOTANY, PAPER-II**

TIME ALI		(PART-I MCQs)	<b>30 MINUTES</b>	MAXIMUM MARKS: 20
THREE H		(PART-II)	2 HOURS & 30 MINU	
( <b>iv</b> )	Attempt Candidate No Page be crossed	ONLY FOUR question e must write Q. No. in e/Space be left blank d.	the <b>Answer Book</b> in accorbetween the answers. All	<b>questions carry EQUAL marks.</b> ordance with <b>Q. No.</b> in the <b>Q. Paper.</b> I the blank pages of Answer Book must
( <b>v</b> )	Extra atte	empt of any question o	r any part of the attempted	d question will not be considered.
			PART-II	
Q. No. 2.	Describe gibberellin	•	hesis, mode of action ar	nd physiological functions of (20)
Q. No. 3.	photorespi			Elaborate the mechanism of ypes of cellular organelles are (20)
Q. No. 4.		ental factors are cruc factors affect plant gr		v do various climatic, edaphic (20)
Q. No. 5.				e causes of soil erosion? How et to this problem in Pakistan. (20)
Q. No. 6.			nd meiosis. In which typ nt for living organisms?	bes of cells mitosis or meiosis (20)
Q. No. 7.		codon and genetic coost of gene regulation in		e of gene. Succinctly describe (20)
Q. No. 8.				olution. Elaborate this process t were the objections on this (20)

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