

## FEDERAL PUBLIC SERVICE COMMISSION

## COMPETITIVE EXAMINATION-2021 FOR RECRUITMENT TO POSTS IN BS-17 UNDER THE FEDERAL GOVERNMENT

Roll Number

## **BOTANY**

TIME ALLOWED: THREE HOURS PART-I(MCQS): MAXIMUM 30 MINUTES		PART-I (MCQS) PART-II	MAXIMUM MARKS = 20 MAXIMUM MARKS = 80	
NOTE: (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)	All the parts (if any) of each Question must be attempted at one place instead of at different			
(111)	places.			
(iv)	Write Q. No. in the Answer Book in accordance with Q. No. in the Q.Paper.			
(v)	No Page/Space be left blank between the answers. All the blank pages of Answer Book must			
, ,	be crossed.			
(vi)	Extra attempt of any question or any part of the question will not be considered.			
PART-II				
Q. No. 2.	<b>o. 2.</b> Cynophyta (Blue green algae) is a main group of algae. What is the economic			
	importance of this particular group in food and hunger? Illustrate your answer with			
	examples?			
Q. No. 3.	What are the physiological roles of Cytokinins and Abscisic Acid in plant growth? (20)			(20)
Q.110.5.	what are the physiological foles of e	jtokimiko dila 11050ko 110	M III PRIN SIOWIII.	(=0)
Q. No. 4.	What is the specificity of enzyme action? Explain it with reference to the important (20)			
	enzyme "Ribulose-1, 5-Bisphosphate	Carboxylase-Oxygenase"	(RuBisCO).	
Q. No. 5.	Differentiate between Vascular cambium and Cork cambium. Describe their role in (2			<b>(20)</b>
	secondary growth.			
Q. No. 6.	Write a note on cell senescence and c	ell death		(20)
Q. 140. 0.	write a note on cen senescence and c	ch dean.		(20)
Q. No. 7.	How are Gametophyte and Sporophyte	te evolved in Bryophytes?		<b>(20)</b>
Q. No. 8.	Write a note on any <b>TWO</b> of the follow	owings.	(10 each)	(20)
<b>2.</b> 110. 0.	The a line on any 1770 of the lone	· · · · · · · · · · · · · · · · · · ·	(10 cucii)	(-0)
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- (a) Hardy Weinberg's Law
- **(b)** Evidences of Evolution
- (c) Theory of Natural Selection

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