

Q. No. 8.

FEDERAL PUBLIC SERVICE COMMISSION COMPETITIVE EXAMINATION-2023 FOR RECRUITMENT TO POSTS IN BS-17 UNDER THE FEDERAL GOVERNMENT

Roll Number

(10 each)

(20)

BOTANY

TIME ALI PART-I(M	LOWED: THREE HOURS CQS): MAXIMUM 30 MINUTES	PART-I (MCQS) PART-II	MAXIMUM MARKS MAXIMUM MARKS	
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 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.	Write comprehensive notes on the followard (a) Morphology of thallus in (b) Alternation of generation	ı Algae	(10 each)	(20)
Q. No. 3.	Describe significance of various types of abiotic environmental factors for soil formation. Give soil characteristics formed by each agent.			(20)
Q. No. 4.	Describe ultra-stucture of nucleus with particular reference to nuclear membrane and pore complexes.			(20)
Q. No. 5.	Describe various types of environmental pollutions. Give significance of biodiversity and conservation to save the living planet.		(20)	
Q. No. 6.	Give a diagrammatic account of locati and briefly describe their functions in pl	-	notosystems in granum	(20)
Q. No. 7.	What are different rules of botanical n system of classification.	omenclature? Compa	re natural and artificial	(20)

- (a) Reproduction and economic importance of yeast
- (b) Illustrative account of protein synthesis in eukaryotes
- (c) Endosperm development in Angiosperms

Write short notes on any **TWO** of the followings:
