

# FEDERAL PUBLIC SERVICE COMMISSION



## COMPETITIVE EXAMINATION FOR RECRUITMENT TO POSTS IN BS-17 UNDER THE FEDERAL GOVERNMENT, 2012

Roll Number

QuickJobs.pk

### BOTANY, PAPER-II

<b>TIME ALLOWED:</b>	<b>(PART-I MCQs)</b>	<b>30 MINUTES</b>	<b>MAXIMUM MARKS: 20</b>
<b>THREE HOURS</b>	<b>(PART-II)</b>	<b>2 HOURS &amp; 30 MINUTES</b>	<b>MAXIMUM MARKS: 80</b>
<b>NOTE: (i) Candidate must write Q. No. in the Answer Book in accordance with Q. No. in the Q. Paper.</b>			
<b>(ii) Attempt ONLY FOUR questions. ALL questions carry EQUAL marks.</b>			
<b>(iii) Extra attempt of any question or any part of the attempted question will not be considered.</b>			

### PART-II

- Q. 2.** Explain Evolution with reference to Darwinism. (20)
- Q. 3.** Give detailed account of Chromosomal aberrations. Support your answer with diagrams. (20)
- Q. 4.** What is salinity and water logging? Discuss with reference to its causes in Pakistan. (20)
- Q. 5.** Which cell division occurs in reproductive cells? How diploid cell produce four haploid daughter cells? Explain. (20)
- Q. 6.** Describe the following: (4x5=20)  
(a) Pyramids (b) Food chain (c) Ecological energetics  
(d) Concepts of ecosystem
- Q. 7.** Write short notes on any **TWO** of the following:- (2x10=20)  
1. Genetic code  
2. Poly Ploidy  
3. Mutation

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