

Previous Year Question Paper of

UPSC - IFS EXAM

INDIAN FOREST SERVICE EXAM

BOTANY MAIN - Paper I

Examination

2013

(Original Question Paper UPSC IPS)
Union Public Service Commission Examination



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Indian Forest Service Examinatir -2013

वियोज्य DETACHABLE

BOTANY Paper I

Time Allowed: Three Hours

Maximum Marks: 200

QUESTION PAPER SPECIFIC INSTRUCTIONS

Please read each of the following instructions carefully before attempting questions.

There are EIGHT questions in all, out of which FIVE are to be attempted.

Question no. 1 & 5 are compulsory. Out of the remaining SIX questions, THREE are to be attempted selecting at least ONE question from each of the two Sections A and B.

Attempts of questions shall be counted in chronological order. Unless struck off, attempt of a question shall be counted even if attempted partly. Any page or portion of the page left blank in the answer book must be clearly struck off.

All questions carry equal marks. The number of marks carried by a question/part is indicated against it. Answers must be written in ENGLISH only.

Neat sketches may be drawn, wherever required.

SECTION 'A'

I.	Answer the following keeping your answers brief and to the point:	
1.(a)	Differentiate between the following:	8
1.(a) (i)	Holocarpic and Eucarpic fungi	
1.(a) (ii)	Eusporangiate and Leptosporangiate ferns	
1.(b)	Write short notes on the following:	8
1.(b) (i)	Myxomycete bearing some characters similar to animals but placed under fungi	
1.(b) (ii)	Soil solarization and its use to control nematodes in soil	
1.(c)	Write critical notes on the following:	8
1.(c) (i)	Phytoanticipins with suitable examples	
1. (c) (ii)	Different types of prothallus in ferms	
1.(d)	Write about the following:	8
1.(d) (i)	Structure and functions of scales, gemma and elaters of Bryophytes	
1.(d) (ii)	Algae as Biofertilizer	
1.(e)	Discuss briefly the following:	8
1.(e) (i)	Importance of Heterospory	
1.(e) (ii)	Biopesticides	
2.	Discuss briefly the following:	10×4 =4 0
2. (a)	Evolution of sexual method of reproduction in algae	10
2.(b)	Endospore formation in bacteria and its significance	10
2.(c)	Economic importance and distribution of Bryophytes	10
2. (d)	Diversity and distribution of Indian Pteridophytes	10

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3.	Write a brief account of the follo	10×4 = 40				
3.(a)	Lytic and Lysogenic cycle	10				
3.(b)	Dissemination of pathogens by in	10				
3.(c)	Morphological nature of sporoca	10				
3. (d)	Causal organisms, symptoms and	10				
4. (a)	Explain the role of arbuscular my	15				
4. (b)	Discuss critically the range of sp	15				
4.(c)	Comment critically on integrated	l disease man	agement.	10		
	S	ECTIO	N 'B'			
5.	Answer the following keeping y	our answers	brief and to the point:	8×5=40		
5.(a)	Distinguish between the following:					
5.(a) (i)	Totipotency and Pluripotency					
5.(a) (ii)	Somatic embryogenesis and Orga	anogenesis				
5.(b)	Write short notes on the following:					
5. (b) (i)	Write short notes on the following: Cycadofilicales					
5. (b) (ii)	Methods of protoplast fusion					
5. (c)	Comment critically on the following	8				
5.(c) (i)	Advanced features of Asteracea					
5.(c) (ii)	Double fertilization and triple fusion in Angiosperms					
5. (d)	Write short notes on the following:					
5. (d) (i)	Write short notes on the following: Ethnobotany					
5. (d) (ii)	Magnoliaceae – Primitive charac					
5. (e)	Make a comparison of the following:					
5. (e) (i)	Make a comparison of the following: Long shoot and dwarf shoot of <i>Pinus</i>					
5.(e) (ii)	Inflorescence of Apiaceae and Euphorbiaceae					
6.	Draw scientifically accurate diag	grams of the	following and label the parts:	10×4 = 40		
6. (a)	T.S. of any stem showing interxylary and intraxylary phloem					
6. (b)	T.S. of coralloid root of Cycas					
6. (c)	Typical embryo sac of dicots					
6. (d)	Floral diagram of Solanaceae			10		
7.	Write brief and critical notes on t	the following	•	10×4=40		
7.(a)	Embaro develorment in a discust a la constant de la					
7.(b)	Affinities of Gymnosperms with Angiosperms 10					
7.(c)	Manager Co. 4.75 (1)					
7.(d)	Energy plantation			10 10		
8. (a)	Write the botanical name, family	and norther	d of each of the fallers in .			
8.(a) (i)	Carrot	Mint	2×10=20			
8.(a) (ii)	Turmeric	8.(a) (vi) 8.(a) (vii)	Finger millet			
8.(a) (iii)	Belladona	8.(a) (viii)	-			
8.(a) (iv)	Clove	8.(a) (ix)	Areca nut			
8.(a) (v)	Castor	8.(a) (ix)	Jasmine			
8.(b)	"Origin and evolution of cultiva originally conceived by Vavilov. developments.	ated plants a " Substantia	re much more complex and intricate the above statement with examp	cated than was oles and recent		

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