## **BOTANY, PAPER-I**



(d) Oogamy

Cleistogramy

(a)

(xiv)

Fertilization within an unopened flower is called:

## FEDERAL PUBLIC SERVICE COMMISSION **COMPETITIVE EXAMINATION FOR RECRUITMENT TO POSTS IN BPS-17 UNDER** THE FEDERAL GOVERNMENT, 2009

S.No.	
R.No.	

## DOTANY DADED I

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						17	AAPKS-20	
BOTA	NY, PAPER-I						6	
M &	FE	DERAL PUBL	IC SER	RVICE COMMISSION	N [		720	$\neg$
Self.	SERVICE	COMPETITI	VE EX	AMINATION FOR		S.No.	00	
AN P	RE			STS IN BPS-17 UND	ER	5.110.	45	
		THE FEDERA	AL GO	VERNMENT, 2009	-		2	-
		<u>P</u>	BOTAN	Y, PAPER-I		R.No.		CO
								1
TIME	ALLCIVVELLY		MINUT			IAXINIUNI	MAKINS.20	
	(1	PART-II) 2 H	<u>IOURS</u>	& 30 MINUTES	N	IAXIMUM N	MARKS:80	•
NOTI	E: (i) First atte	empt <b>PART-I</b> (	MCQ)	on separate <b>Answer Sh</b>	eet whi	ich shall be ta	ken back	]
		minutes.		-				
	(ii) Overwr	iting/cutting of	the opt	ions/answers will not	be give	en credit.		
			PAR	RT – I (MCQ)				
				MPULSORY)				
Q.1.	Select the hest	ontion/answer		in the appropriate bo	x on th	e Answer Sh	neet. (20)	
(i)		-		nt the first cell of the:	OH til		(40)	
(1)	-	ryophytic plant nytic generation	-	Sporophytic generation	n (c)	Asexual gene	ration	
	(d) All of thes	•		None of these	(C)	r isendar gene	ration	
(ii)	· /		` /	ceae and chlorophyceae	are sin	nilar in the:		
. ,	(a) Cell wall s			Reserve food		Pigment com	position	
	(d) Structure	of flagella	(e)	None of these				
(iii)			-	er fertilization in:				
	(a) Blue green		, ,	Actinomycetes	(c)	Bryophetes		
<i>(</i> • )	(d) Red algae		(e)	None of these				
(iv)	Rice belongs to	-	(1-)	D.L.	(-)	C - 1 - · · · · · ·		
	<ul><li>(a) Malvaceae</li><li>(d) Poaceae</li></ul>	e	` /	Fabiaceae None of these	(c)	Solonaceae		
(v)	Gametophyte of	f fern is called:	(6)	None of these				
(*)	(a) Prothallus		(b)	Protocorm	(c)	Thallus		
	(d) Gametang		` /	None of these	(0)	Tiuitus		
(vi)	The sieve eleme		` '					
	(a) Cambium	•	-	Apical meristem	(c)	Xylem		
	(d) Phloem		(e)	None of these				
(vii)	Which one of the	-						
	(a) Sunflower	r		Begonia	(c)	Biden		
<i>(</i> )	(d) Brasica	1	` '	None of these	1 .	· · · · · · · · · · · · · · · · · · ·		,
(viii)		neration is born	e upon	gametophyte and is dep	enaent	on it. This fe	eature is presei	at
	in: (a) Cycas		(b)	Adiantam	(c)	Equisetum		
	(d) All of thes	se	` ′	None of these	(0)	-quisciuiii		
(ix)	Double fertiliza		` '					
` /	(a) Algae	71		Fungi	(c)	Bryophytes		
	(d) Angiosper	rm	(e)	All of these				
(x)	Marchantia repr	roduces vegetati	vely by	:				
	(a) Apospory			Gemma Cup	(c)	Budding		
	(d) All of thes		(e)	None of these				
(xi)	Plant cell wall i	s composed of:	<b>/1</b> \	D 1 (1)		D1 1 11 11		
	(a) Cellulose			Polypeptides	(c)	Phospholipida	S	
(vii)	(d) Starch	rimary vecesie.	` '	None of these	a atrond	la around a mi	t is called:	
(xii)	(a) Prostele	amary vasculal		are arranged in discrete Radial stele		is around a pi Centric stele	i 18 Calleu.	
	(d) Frostele (d) Eustele		` /	None of these	(0)	Comme Stell		
(xiii)	` '	llowing edible n	` ′	otained from the Rhizon	ne:			
()	(a) Potato	салого р		Ginger		Sugar beet		
	(d) Onion		, ,	None of these	` /			

(c) Isogamy

(b) Cleistocary

(e) None of these

## **BOTANY, PAPER-I**

BOTAN	Y, PAPER-I			(c) Cambium formation (c) Aspergillus			
				17/16			
(xv)	Meiosis takes place during: (a) Gamete formation	(b)	Zygote formation	(c) Cambium formatic	1		
	(d) All of these		None of these		32		
(xvi)	Edible fungus is:	(1.)		( ) A '11			
	<ul><li>(a) Penicillium</li><li>(d) Phythium</li></ul>	` '	Agaricus None of these	(c) Aspergillus			
(xvii)	Speciation is:	(6)	None of these				
(1111)	(a) Origin of species	(b)	Evolution of species	(c) Identification of specie	S		
	(d) Preservation of species	(e)	None of these	. ,			
(xviii)	Collective name given to sporangi			( ) <b>G</b> 1			
	<ul><li>(a) Sorus</li><li>(d) Sporangiophore</li></ul>		Sporangium None of these	(c) Spathe			
(xix)	(d) Sporangiophore Small, spherical protein bodies sur	` '		chloroplasts of many aloae :	are.		
(AIA)	(a) Lecoplasts		Ribosomes	(c) Microsomes	arc.		
	(d) Pyenidium	(e)	None of these	<b>、</b>			
(xx)	Heterocysts are present in:						
	(a) Volvox	` ′	Clostridium	(c) Cycas			
	(d) E-Coli	(e)	None of these				
			<u>PART – II</u>				
	(i) PART-II is to be attempte						
NOTE:				uestions carry <b>EQUAL</b> mark			
	(iii) Extra attempt of any que considered.	estion	or any part of the at	tempted question will not l	be		
	Describe the life history of any mu				(10)		
(b)	Write note on different parameters	s whic	ch are used in classificati	ion of algae.	(10)		
<b>O.3.</b> (a)	Describe the general characteristic	es and	l methods of reproductio	n in fungi.	<b>(10)</b>		
	Discuss five plant diseases of econ		-	•	(10)		
Q.4.	Explain in detail the evolution of	game	tophyte and sporophyte i	n bryophytes?	(20)		
Q.5.	What is pollination and fertilizati	on?	Give an account of post	fertilization events leading	to the		
	development of seeds in angiosperms. (20)						
Q.6.	What do you understand by secon	ndary	growth? Describe the p	process in detail in a typical	Dicot.		
	Stem.				(20)		
					(20)		
Q.7.	Explain the different systems of c plant taxonomy.	classit	fication in angiosperms.	Also discuss the modern tre	nds in (20)		
Q.8.	Enlist the salient features of gy	mno	enerme Also describe	the features in which this	group		
Q.0.	Limst the sament reatures of gy	TIMO	sperms. Anso describe	the realties in which tills	group		
	resembles and differs with pterido		-		(20)		

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