FEDERAL PUBLIC SERVICE COMMISSION



COMPETITIVE EXAMINATION FOR RECRUITMENT TO POSTS IN BS-17 UNDER THE FEDERAL GOVERNMENT, 2013

Roll Number

BOTANY, PAPER-I

TIME ALLOWED: THREE HOURS			(PAI	RT-I	MCQs)	30	MINU	ITES		MA	MAXIMUM MARKS: 20				
			(PART-II) 2 HOURS & 30 MINUTES								MAXIMUM MARKS: 80				
NOT	E: (i)				RT-I (MO	CQs)	on sep	arate ON	IR A	nswer S	Sheet wh	ich sł	nall be taken back		
	(••	after 30			• 641	4•	,	•11	. 41		114				
	(ii) Overw	riting/	cutt	ing of the	optio	ons/ans	wers will	not I	be giver	credit.				
					PART	- I ((MCO	s) (COM	1PU I	LSOR	Y)				
01 (i) Se	elect the he	st onti	on/ar								Ancs	wer Sheet. (20x1=20		
		nswers give											vei siicet. (20x1–20		
	(11)	115 11 615 61 1	ii aii	*********	o, other th	iuii O	1,114 1 11		C t, 511	an not c	Consta	orea.			
1.	Epid	ermal tissu	e act g	gener	ally as:										
	(a) Protective tiss			ssue			(b) Absorbing tissue (c) P					ntheti	c tissue		
	(d) Conducting tissue					(e)	None o	of these							
2.	Alte	rnate name	of Far	nily	Apiaceae	is:									
	(a)	Lamiaceae		(b)	Labiatae	(c)	Umbel	liferae	(d)	Grami	nae	(e)	None of these		
3.	Whe	n Stamens	are nu	merc	ous and att	ache	d to Co	rolla, this	condi	ition is l	known as	:			
	(a)	Polyandrou	is and	Epip	etalous	(b)	Synge	nious	(c)	Monac	lelphous	(d)	None of these		
4.	Whi	ch of these	is not	gree	n Algae?										
	(a)	Volvox		(b)	Chlorella	ı	(c)	Ulothrix		(d)	Nostoc	(e)	None of these		
5.	In R	hizopus Sez	xual re	eprod	luction is:										
	(a)	Anisogamo	ous	(b)	Oogamo	us	(c)	Conjuga	tion	(d)	None o	f these	e		
6.	Duri	ng germina	tion n	ucleı	as of zygo	spore	of Rhi	zopus firs	t und	ergoes:					
	(a)	Mitosis		(b)	Meiosis	(c)	Amito	sis	(d)	Binary	fission	(e)	None of these		
7.	Whi	ch of the fo	llowin	ıgs p	ossesses b	oth a	nimal a	nd plant o	charac	eters?					
	(a)	Stigeoclon	eum	(b)	Euglena	(c)	Chlam	ydomona	S	(d)	Ulva	(e)	None of these		
8.	Rhyı	nia belongs	to gro	oup o	of:										
	(a)	Desert plar	ıts	(b)	Aquatic 1	plants	s (c)	Alpine p	lants	(d)	Fossil p	lants	(e) None of these		
9.	The	main plant	in Sela	agine	ella is a:										
	(a)	Sporophyte	3	(b)	Gametop	hyte	(c)	Epiphyte	e	(d)	Thallop	hyte	(e) None of these		
10.	Pinu	s lacks whi	ch one	e of t	he followi	ng:									
	(a)	True flowe	r			(b)	Male o	cones only	y	(c)	Female of	cones	only		
	(d)	Both male	and fe	emale	e cones	(e)	None o	of these							
11.	Inter	action betw	veen A	lgae	and Fung	i is c	alled:								
	(a)	Parasitism		(b)	Mutualis	m	(c) Co	mmensal	ism	(d) A1	mensalisn	n (e) None of these		
12.	The	plant cell w	ithout	nuc	lei are fou	nd in	:								
	(a)	Cambium	(b)	Roo	ot hairs	(c)	Compa	anion cell	s (d)	Vessel	elements	s (e)	None of these		

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13.	Whi	ch of the follow	ving is	rapid type	of al	osorptio	on?									
		(a) Passive absorption				(b) Active absorption (c) Salt at						bsorption				
		Root tip absor	•		` ′		of these									
14.		er is absorbed t	_			•		,•	(1)	0		\ \ T	c	.1		
15	` ,	Respiration		Turgor pr			_		(d)	Osmos	S1S (€	e) No	one of	these		
15.		tissue responsi Vessels (b)							Fibers	(e)	Non	e of t	hese			
16.		colour of Red					•	(u)	110018	(6)	INOII	C OI t	nese			
10.		Neoxanthin	•	Phycoery	-			e-B	(d) Fu	coxanth	nin (e) N	one of	these		
17.	` /	presence of lig	` '						(42)	• 011001101	(•	.,	0110 01			
		Woody tissue		Phloem					Cortex	(e)	Non	e of t	hese			
18.	In w	hich of the foll	, ,					e func	ction of	Storage	and I	Peren	ation?			
	(a)	Ground nut	(b)	Ginger	(c)	Wheat	t	(d)	Radisl	n (e)	Non	e of t	hese			
19.	Com	nmon method o	f produ	cing new v	arie	ties of	Roses is:									
	(a)	Cutting	(b)	Budding		(c)	Grafting		(d)	Layeri	ng	(e)	None o	of these		
20.	A br	anched Racem														
	(a)	Corymb	(b)	Panicle		(c)	Spike		(d)	Catkin	1	(e)	None	of these		
						_										
						<u>P</u>	ART-II									
NO	ΓΕ: (i) Part-II is to	he atte	empted on	the s	senarate	e Answer	Rook	<u> </u>							
1101	` `	i) Candidate n		-		-				e with (). No	. in th	ne Q. P	aper.		
	-	ii) Attempt ON		-					-		•					
	(i	v) Extra attem	pt of an	y question	or a	ny part	of the att	empte	ed quest	ion will	not b	e coi	nsidere	d.		
Q. No.2.		Discuss evolu	•		•	ophyte	es with sp	ecial	referen	ce to d	evelo	pmen	t of	(20)		
		spores and ass	sociated	1 structure.										(20)		
O. N	lo.3.	What are "l	FUNGI	"? How	thev	are	different	from	plants	? Expl	ain	indus	trial			
Q. 110.5.		What are "FUNGI"? How they are different from plants? Explain industrial applications of "FUNGI".											(20)			
Q. No.4.		Write a detailed account on the development of ENDOSPERM in plants.											(20)			
0.8	lo.5.	What is SPEC	TATIO	N? Explai	n ma	odern tr	ends in P	lant S	vstemat	ics				(20)		
V. 1.		What is Si Ec	2111110	TV. Explain		ocin u		uni S	Jocenna	ics.				(20)		
Q. N	lo.6.	Why ALGAE are known as THALLOPHYTES? Give economic importance of														
		ALGAE.												(20)		
O N	lo.7.	Write critical	notes o	n MICROS	SPO	ROGF	NESIS an	d MF	GASPC	ROGE	NFSI	S		(20)		
ζ •1'		Will Citical	110103 0	ii wiicko	J1 ()	ROOL.	TIDID all	G IVIL	(J) (D) (MOOL	11701	υ.		(20)		
Q. N	10.8.	Write notes or	•			owings	:					(10 e	ach)	(20)		
		(a)		otaxonomy	,		a									
		(b)	Evolu	tionary ten	idend											
		(c)		al and Abn			Gymnosp ondary Gr									
