FEDERAL PUBLIC SERVICE COMMISSION



(a) Biotope

(b) Biomes

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

Roll Number

BOTANY, PAPER-II

	E ALLOWED:	(PART-I M			MAXIMUM MARKS: 20
	EE HOURS	(PART-II)		S & 30 MINUTES	MAXIMUM MARKS: 80
NOT			Γ-I (MCQs) on sep	arate OMR Answe	r Sheet which shall be taken back
		30 minutes.	a of the entions/one		war andi
	(ii) Over	writing/cutting	g of the options/ans	wers will not be gr	ven credit.
		<u>P</u>	ART-I ((MCQs)	(COMPULSOR	<u>(Y)</u>
0.1. ((i) Select the be				the OMR Answer Sheet. $(20x1=20)$
-			other than OMR An	•	
1.	•	0 0	nes introduced by ge		
	(a) Transgen		•		d) Polyploids (e) None of these
2.		•	which both partners		
	(a) Antagoni	sm (b) C	Competition (c)	Mutualism (d) None of these
3.	Autotrophs ar	e primary prod	ucers in:		
	(a) Food wel	(b) F	Good chain (c)	Food series (d) Food security (e) None of these
4.	A multiprotein	n complex that	comprises ATPase i	n thylakoid membra	nne is:
	(a) CF_0 - CF_1	(b) C	CF_0 - CF_2 (c)	CF_1 - CF_2 (e	d) CF_2 - CF_1 (e) None of these
5.	Set of condition	ons in which ar	n organism complete	s its life cycle is:	
	(a) Niche	(b) H	Habitat (c)	Biome	(d) Habit (e) None of these
6.	Suberized ban	d in the cell wa	all of endodermis is:		
	(a) Exoderm	al strip	(b)	Casparian strip	(c) Abscision strip
	(d) Hypoder	mal strip	(e)	None of these	
7.	Genetically dy	warfness can be	e overcome by treatr	nent with:	
	(a) Jasmonat	es (b) A	Auxins (c) Abscis	ic acid (d) Gib	berellins (e) None of these
8.	Exchange of s	genetic materia	l between two paired	d chromosome durin	g meiosis is:
	(a) Test cros		-		(d) None of these
9.	Free space in	` '	sing cell wall and int	U	
	(a) Symplast	_	=	Protoplast (d) A	Amyloplast (e) None of these
10.			ith 2n-1 is called:	1	
	(a) Disomy	-		Monosomy (d) Tetrasomy (e) None of these
11.	•	• •	seasonally are called	•	
	(a) Annuals	_	•		d) Deciduous (e) None of these
12.	` ′	` '	y by metabolizing th		
_=,	(a) Lithotrop	0.		· ·	d) Phototrophs (e) None of these
13.	* *		nt succession in a gi	* .	a, Thorotrophis (c) Trone of these
10.	(a) Cline		_	•	d) Cleave (e) None of these
14.	` '		ally similar condition	,	
17.	Cillian carry a	na geograpine	any similal condition	ns on the cartif are c	anca.

(c) Biosphere

(d) Biography (e) None of these

BOTANY, PAPER-II

15.	Ver	naliz	ation is p	rocess	in v	which	flower	ring is pr	omoted	by:						
	(a)	Sal	t treatmen	t		(b)	Hot t	reatmen		(c)	Cold tr	eatment	(d)	No	ne of the	ese
16.	Whi	ich o	of the follo	wing c	con	tains i	ts own	DNA?								
	(a)	Gol	gi bodies			(b)	Mito	chondria		(c)	Riboso	omes	(d)	No	ne of the	ese
17.	In c	hlor	ophyll, for	ır rings	s of	f pyrro	ole form	ning a c	omplex	with:						
	(a)	Cu-	atom	(b)	Fe-ato	m	(c)	Mg-ato	om	(d)	K-atom	(e)	No	ne of the	se
18.	Plar	nts g	rowing ins	side an	oth	er pla	nt are o	called:								
	(a)	Enc	lophytes	(b) [Exopl	nytes	(c)	Amphi	iphytes	(d)	Phleophy	ytes	(e)	None of	these
19.	A fu	ıncti	onal unit	of mod	lerr	ecolo	ogy is:									
	(a)	Hal	oitat	(b)	Biosp	here	(c)	Succes	ssion	(d)	None of	these	;		
20.	Mut	tatio	n arising a	s an in	nm	ediate	and di	rect resp	onse to	selectiv	e pressi	ure:				
	(a)	Poi	nt mutatio	n			(b)	Adapt	ive muta	ation		(c) S	hift n	nuta	tion	
	(d)	Nat	ural selec	tion			(e)	None	of these							
								PA.	<u>RT-II</u>							
	rife (i	;) I	Part-II is	to be a	ttat	nntad	on the	canarate	Angwa	r Rook						
NOT	ر) . تعدا	., .	ar t-11 13	io oc a	itiCi		on the	separan	Allswe			with O	NT. :			
NOI	(i	ii) (Candidate	must v	writ			he Ansv	ver Bool	k in acc	Cordance	3 WIUI U. .	INO. 11	n the	O. Par	er.
NOI			Candidate Attempt O			e Q. I	No. in t									er.
NOT	(i	iii) A		NLY F	FO	e Q. I U R qu	No. in the second sections	s from P	ART-II	. ALL	questior	ns carry E	QUA	L n	arks.	er.
NOT	(i	iii) A	ttempt O	NLY F	FO	e Q. I U R qu	No. in the second sections	s from P	ART-II	. ALL	questior	ns carry E	QUA	L n	arks.	er.
Q. N	(i (i	iii) A	Attempt On Extra attention What are	NLY Fapt of a	FOI any	e Q. I U R qu ques	No. in the stions of the stion or	s from P any part	ART-II of the a	. ALL attempte	questior ed quest	ns carry E ion will n	QUA ot be	L n	narks. sidered.	(20)
	(i (i	iii) A	Attempt O l Extra atten	NLY Fapt of a	FOI any	e Q. I U R qu ques	No. in the stions of the stion or	s from P any part	ART-II of the a	. ALL attempte	questior ed quest	ns carry E ion will n	QUA ot be	L n	narks. sidered.	
Q. N	(i (i (io.2.	iii) A	Extra atten What are answer w	NLY Fapt of a variou ith exa	FOI any as c	e Q. I U R qu quess criteria	No. in the stion or the stion or the stion or the stion of ess	s from P any part	ART-II of the a	i. ALL attempte eral ele	questioned quest	ns carry E ion will no	QUA ot be Supp	L n con ort y	narks. sidered.	(20)
	(i (i (io.2.	iii) A	Extra atten What are answer w What is s	variou ith exa	FOI any as c amp	e Q. I UR quest riteria bles.	No. in the stion or a coff essential gives	s from P any part sentiality	of the a	attempted. ALL eral ele	questioned quest	ns carry E ion will no	QUA ot be Supp	L n con ort y	narks. sidered.	
Q. N	(i (i (io.2.	iii) A	Extra atten What are answer w	variou ith exa	FOI any as c amp	e Q. I UR quest riteria bles.	No. in the stion or a coff essential gives	s from P any part sentiality	of the a	attempted. ALL eral ele	questioned quest	ns carry E ion will no	QUA ot be Supp	L n con ort y	narks. sidered.	(20)
Q. N	(i (i (o.2.	iii) A	What are answer w What is s life; give	variou ith exa eed do merits	any any as c amp orm	e Q. I UR questriteriables. ancy addem	No. in the stion or it of essuand giverits of the what a	s from P any part sentiality we its type f seed do	of the a of mine oes? How	eral ele	questioned quest	ns carry E ion will no f plants? y is impor	QUA ot be Supp	L n con ort y	narks. sidered. ou	(20)
Q. N Q. N	(i (i (o.2.	iii) A	What are answer w What is s life; give	variou ith exa eed do merits	any any as c amp orm	e Q. I UR questriteriables. ancy addem	No. in the stion or it of essuand giverits of the what a	s from P any part sentiality we its type f seed do	of the a of mine oes? How	eral ele	questioned quest	ns carry E ion will no f plants? y is impor	QUA ot be Supp	L n con ort y	narks. sidered. ou	(20)
Q. N Q. N Q. N	(i (i) (o.2. (o.3.	iii) A	What are answer w What is s life; give What is a it is impo	variou ith exa eed do merits n Ecos rtant to	any any as c amp orm and sys o lif	e Q. I UR questriteria oriteria olles. ancy a d dem	No. in the stion or the stion o	s from P any part sentiality we its typ f seed do re the co	of the a of mine oes? How	eral ele w the de	questioned quest ments of ormancy n aquati	ns carry E ion will no f plants? y is import c ecosyst	QUA ot be Supp	ort y	narks. sidered. ou ant	(20) (20) (20)
Q. N Q. N	(i (i) (o.2. (o.3.	iii) A	What are answer w What is s life; give What is a it is impo	variou ith exa eed do merits n Ecos rtant to	any us c amp orm and sys; o lift	e Q. I UR quest riteriables. ancy a d dem	No. in the stion or the stion o	s from P any part sentiality we its typ f seed do re the co	of the a of mine oes? How	eral ele w the de	questioned quest ments of ormancy n aquati	ns carry E ion will no f plants? y is import c ecosyst	QUA ot be Supp	ort y	narks. sidered. ou ant	(20)
Q. N Q. N Q. N	(i (i) (o.2. (o.3.	iii) A	What are answer w What is s life; give What is a it is impo	variou ith exa eed do merits n Ecos rtant to	any us c amp orm and sys; o lift	e Q. I UR quest riteriables. ancy a d dem	No. in the stion or the stion o	s from P any part sentiality we its typ f seed do re the co	of the a of mine oes? How	eral ele w the de	questioned quest ments of ormancy n aquati	ns carry E ion will no f plants? y is import c ecosyst	QUA ot be Supp	ort y	narks. sidered. ou ant	(20) (20) (20)
Q. N Q. N Q. N	(i (i) (o.2. (o.3. (o.4.	iii) A	What are answer w What is s life; give What is a it is impo	variou ith examents n Ecos rtant to is h te exam	any any as c amp orm and system am mp orm	e Q. I UR quest rriteria olles. ancy a d dem tem? I fe on a pering les.	No. in the stion or the stion o	s from P any part sentiality we its typ f seed do re the co	of the a of mine oes? How ormancy omponer	eral ele w the de nts of a	questioned quest ments of ormancy n aquati	ns carry E ion will not f plants? y is imported ecosystems this state	QUA ot be Supp rtant tem an	ort y	narks. sidered. ou ant ow	(20) (20) (20)
Q. N Q. N Q. N Q. N	(i (i) (o.2. (o.3. (o.4.	iii) A	What are answer w What is s life; give What is a it is impo "Pollution appropria	variou ith examents n Ecos rtant to is he te examents to the te examents to the te examents to the examents to	any any as c amp orm and syssic ample tweetweetweetweetweetweetweetweetweetw	e Q. I UR quest riteriables. ancy a d dem tem? I fe on a	No. in the stions of essential giver and giver	s from P any part sentiality we its typ f seed do re the co	of the a of mine oes? How ormancy omponer	eral ele w the de nts of a	questioned quest ments of ormancy n aquati	ns carry E ion will not f plants? y is imported ecosystems this state	QUA ot be Supp rtant tem an	ort y	narks. sidered. ou ant ow	(20) (20) (20) (20)
Q. N Q. N Q. N Q. N	(i (i) (o.2. (o.3. (o.4.	iii) A	What are answer w What is s life; give What is a it is impo "Pollution appropria Differentic continuity	variou ith examents n Ecos rtant to n is hote examents to the examents at the examents of the	FOR any and a system a	riteria de de merca de les. ancy a de de merca de les. een merca de les.	No. in the stion or the stion o	s from P any part sentiality we its typ f seed do re the co daily li	of the a of mine oes? How ormancy omponer of activities activities. Also	eral ele w the de nts of a ities."	questioned quest ments of ormancy n aquati Justify how me	ns carry E ion will not be f plants? If plants? It is imported ecosystem is state eiosis is s	QUA ot be Supp rtant tem an ament	ort y	narks. sidered. ou ant ow ing	(20) (20) (20) (20)
Q. N Q. N Q. N Q. N	(i (i) (o.2. (o.3. (o.4.	iii) A	What are answer w What is s life; give What is a it is impo "Pollution appropria Differentic continuity Define m	variou ith examend do merits n Ecos rtant to n is he te examend to the examend t	FOR any and a system and a system are tweetimes and a system are tweetimes are a system are a sy	e Q. I UR quest riteria bles. ancy a d dem tem? If fe on a pering les.	No. in the stion or it of ession of	s from P any part sentiality we its typ f seed do re the co daily li	of the a of mine oes? How ormancy omponer of activities activities. Also	eral ele w the de nts of a ities."	questioned quest ments of ormancy n aquati Justify how me	ns carry E ion will not be f plants? If plants? It is imported ecosystem is state eiosis is s	QUA ot be Supp rtant tem an ament	ort y	narks. sidered. ou ant ow ing	(20) (20) (20) (20)
Q. N Q. N Q. N Q. N	(i (i) (o.2. (o.3. (o.4.	iii) A	What are answer w What is s life; give What is a it is impo "Pollution appropria Differentic continuity	variou ith examend do merits n Ecos rtant to n is he te examend to the examend t	FOR any and a system and a system are tweetimes and a system are tweetimes are a system are a sy	e Q. I UR quest riteria bles. ancy a d dem tem? If fe on a pering les.	No. in the stion or it of ession of	s from P any part sentiality we its typ f seed do re the co daily li	of the a of mine oes? How ormancy omponer of activities activities. Also	eral ele w the de nts of a ities."	questioned quest ments of ormancy n aquati Justify how me	ns carry E ion will not be f plants? If plants? It is imported ecosystem is state eiosis is s	QUA ot be Supp rtant tem an ament	ort y	narks. sidered. ou ant ow ing	(20) (20) (20) (20)
Q. N Q. N Q. N Q. N	(i (i) (o.2. (o.3. (o.4. (o.5.	iii) A	What are answer w What is s life; give What is a it is impo "Pollution appropria Differentic continuity Define m	variou ith examents n Ecos rtant to n is hote examents to nexament	EOU any any as compormed and systematic ampletive ext g	riteria de les. ancy a dem de les. een magenera de les.	No. in the stion or the stion o	s from P any part sentiality we its typ f seed do re the co daily li and meio	of the a of mine oes? How ormancy omponer of activities activities activities activities of the activities of the activities of the activities of the activities acti	eral ele w the de nts of a ities."	questioned quest ments of ormancy n aquati Justify how means	is carry E ion will not be f plants? If plants? It is imported ecosystem is state eiosis is seriosis is seriosi	QUA ot be Supp rtant to em an ignificant to coduce the	ort y	narks. sidered. ou ant ow ing	(20) (20) (20) (20)
