

FEDERAL PUBLIC SERVICE COMMISSION FOR TENT TO POSTS IN BS-17 THE RIMENT, 2013

TIMI	E AL	LOWED:	(PART-I	MCQs)	30 MINU	JTES		MAX	IMUM MAR	2KS: 20		
		HOURS	(PART-I	,		S & 30 MIN			IMUM MAR			
NOTE: (i) First attempt PART-I (MCQs) on separate OMR Answer Sheet which shall be taken back												
after 30 minutes. (ii) Overwriting/cutting of the options/answers will not be given credit.												
	(,	ii) Overwi	i itilig/cutt	ing of the o	puons/ans	WCIS WIII III	ot be given	i Ci cuit.				
				PART-I	((MCQs)	(COMPU	JLSORY	<u>)</u>				
Q.1. ((i) Se	lect the best	option/ans	swer and fill	l in the app	ropriate Circ	cle 🔾 on th	e OMR An	swer Sheet.	(20x1=20)		
	(ii) A	answers give	en anywhe	re, other tha	n OMR Ar	swer Sheet,	shall not b	e considere	d.			
1.	Dlor	ate avaraccia	a foreign	range introd	lucad by go	enetic engine	oring oro:					
1.		Transgens		Hybrids		Mutants	_	Polyploide	(e) None	of these		
2.	` '	U		•	` '	benefits is c		rotypiolus	(e) None	or mese		
4.		Antagonisr	_	Competitio	_	Mutualism		None of the	A2A			
3.		otrophs are		-)II (C)	Withtualisiii	(u)	None of the	CSC			
3.		Food web	• •	Food chair) (a)	Food series	(b)	Food soour	rity (e) None	of those		
4.	` ′		` ′		` '	in thylakoid			ity (e) None	or mese		
7.		CF ₀ -CF ₁	-	CF ₀ -CF ₂		CF ₁ -CF ₂		CF_2 - CF_1	(e) None o	f these		
5.	` ′	~ -	` ′	~ -	` ′	es its life cyc		C1 ⁻² -C1 ⁻¹	(e) None o	i tilese		
٥.		Niche		Habitat	•	Biome		Habit (e) None of t	hese		
6.	` ′		` '		` ′		(u)	Haon (c) INOIIC OI (iicsc		
U.	Suberized band in the cell wall of endodermis is: (a) Exodermal strip (b) Casparian strip (c) Abscision strip											
		(d) Hypodermal strip				None of these						
7.		• •	•	he overcon	` ′							
·•	Genetically dwarfness can be overcome by treatment with: (a) Jasmonates (b) Auxins (c) Abscisic acid (d) Gibberellins (e) None of these								hese			
8.	` ′	Exchange of genetic material between two paired chromosome during meiosis is:								nese		
0.		Test cross		Back cros	-	Inbreeding	_	None of the	nese			
9.	` /		` ′			tercellular sp		1 (0110 01 11				
•		Symplast	_	Apoplast		Protoplast		vloplast (e) None of t	hese		
10.	` ′	omosome co				Trotopiust	(4)	Jiopiwa ((0) 1 (0110 01)			
		Disomy	•	Nullisomy		Monosomy	(d)	Tetrasomy	(e) None of	of these		
11.		nts shedding		•		•	(4)	j	(1)			
		Annuals		Biannuals		Perennials	(d)	Deciduous	(e) None	of these		
12.	Org	anisms that				e inorganic			,			
	_	Lithotrophs		Osmotropl	_	_			s (e) None	of these		
13.		•		•		ven ecosyste	-	1	. ,			
		Cline		Climate	_	Climax		Cleave (e) None of t	hese		
14.	Climatically and geographically similar conditions on the earth are called:											
		Biotope		Biomes		Biosphere			(e) None	of these		

BOTANY, PAPER-II

Q. No.8.

										-	_		
15.	Vernal	ization is pro	cess in	which	flower	ng is pr	omoted by:			7	None None	Sx.	
	(a) Sa	alt treatment		(b)	Hot tr	eatment	(c)	Cold to	reatment	(d)	No.	જી	1
16.	Which	of the follow	ing co	ntains i	ts own	DNA?					`	13	10
	(a) G	olgi bodies		(b)	Mitoc	hondria	(c)	Riboso	omes	(d)	None	of th	12
17.	In chlo	rophyll, four	rings o	of pyrro	le form	ing a co	omplex with:						1.
	(a) C	u-atom	(b)	Fe-ato	m	(c)	Mg-atom	(d)	K-atom	(e)	None	of the	se 🔪
18.	Plants growing inside another plant are called:												
	(a) Endophytes (b)			Exophytes (c)			Amphiphytes	Phleophytes (e) None of thes					
19.	A functional unit of modern ecology is:												
	(a) H	abitat	(b)	Biospl	nere	(c)	Succession	(d)	None of	these			
20.	Mutati	on arising as	an imr	nediate	and dir	ect resp	onse to selectiv	ve press	ure:				
	` '	oint mutation			(b) Adaptive mutation			(c) Shift n			n		
	(d) N	atural selection	on		(e)	None of	of these						
						DA 1	RT-II						
						IA	<u> </u>						
NO				•		•	Answer Book						
				_			ver Book in acc		_		_	_	er.
							ART-II. ALL of the attempto						
	(=1)		01 41	ij quest	2011 01 (urj pur	or the decempe	ou quos	1011 ((111 11	0000	011010		
Q. No.2.		What are va	arious	criteria	of esse	entiality	of mineral ele	ments o	of plants?	Supp	ort vou		(20)
V			What are various criteria of essentiality of mineral elements of plants? Support you answer with examples.									•	(=0)
Q. N	To.3.		What is seed dormancy and give its types? How the dormancy is important to plant										
		life; give m	erits a	nd dem	erits of	seed do	rmancy.						
Q. N	Jo.4.	What is an	Ecosy	stem? V	What a	e the co	omponents of a	n aquat	ic ecosyst	em aı	nd how		(20)
V		it is importa	•			c the co	imponents of a	ar aqaac	ie eeosyst	om a	ia no v		(=0)
Q. No.5.		"Pollution is hampering our daily life activities." Justify this statement citing										,	(20)
		appropriate	exam	ples.									
Q. N	lo.6.	Differentiat	e betw	veen mi	tosis aı	nd meio	sis. Also show	how m	eiosis is s	ignifi	cant in		(20)
£, -		continuity t						//		0			()
Q. N	lo.7.	Define mutants in s				Give d	etails of variou	is means	s for the p	roduc	tion of		(20)
		annuame in (

Give a detailed descriptive and illustrative account of fine structure of gene.

(20)