## **FORESTRY**

(xii)

(xiii)

(a) its market value

(c) to regulate growth

(c) necessarily presence in leaves

Pheromones are synthetic chemicals used:

(a) to enhance cross pollination in vegetation (b)



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

S.No.	
R.No.	

## **FORESTRY**

		FORESTRY				R.No.		
TIME ALLOWED:		(PART-I) 30 MINUTES			NT C	MAXIMUM MARKS:20		
		(PART-II)	2 HOURS &	2 30 MINU'I	<u>'ES</u>	MAXIMUM MARKS:80		
NOTE	after .	30 minutes.		•		et which shall be taken back oe given credit.		
				T – I (MCC PULSOR				
Q.1.	Select the be	est option/an	swer and fill i	n the appro	priate box	x on the Answer Sheet. (20)		
(i)	The study of	individual an	d its relationsh	ip to the env	rironment	is called:		
	(a) autecol	ogy		(b)	synecolo	gy		
	(c) ecosyst			(d)	None of			
(ii)		-	opment process	s, starting fr	om establ	ishment of pioneer species uptil it		
	climax stage			<b>4</b> S				
	(a) restorat			(b)	fragmen			
(:::)	(c) succession (d) None of these							
(iii)	The inhibition of germination, growth or metabolism of one plant by another through the production of toxic chamical compounds that assens into the environment is called:							
	-	of toxic chemical compounds that escape into the environment is called:						
	<ul><li>(a) mycotr</li><li>(c) symbio</li></ul>							
(iv)	(c) symbiosis (d) None of these Settling down of water in the form of dew, rain, hails or snow is called:							
(1V)	(a) precipi		the form of dev	(b)	rainfall	s cancu.		
	(c) both of			(d)	None of	these		
(v)	· /		n soil where pl	` '				
( )	• •	a is the condition in soil where plants experience: aterlogging (b) oxygen deficiency (c) high concentration of salts						
	(d) All of t		` '	None of the	•	( ) 8		
(vi)	Lopping of t	rees for anima	al fodder purpo	se is called:				
	(a) grazing	5	(b)	browsing		(c) tethering		
	(d) coral fe	eeding	(e)	None of the	se			
(vii)	Pyric factor i	s important a	ffecting forest	growth, it m	eans:			
	(a) temper			(b)	radiation			
	(c) nutrien			(d)	None of			
(viii)			ich a compass r	-				
	` '		North Pole from	m the observ	er	(b) magnetic north		
		ic compass	1.6.6.11	1.0		(d) None of these		
(ix)			rowth for fodd	_				
	· · ·	growth stage	2	(b)	seeds are	•		
(w)	(c) at first		avina waiaht	(d)	None of	tnese		
(x)		imi is a cow i	naving weight of	or: (b)	900 kg			
	(a) 450 kg (c) 1000 kg	σ		(d)	None of	these		
(xi)			material presen	` ′				
(111)	(a) mulch	iposea piant	material presen	(b)	litter	, is canca.		
	(c) compos	st .		, ,	None of	these		

Essential oil is a product from some tree leaves, it is called so due to:

(b) essence

(d)

(d)

None of these

None of these

to attract insect to kill them

EODE									
FORE									
(xiv)	The loss of water through stomata of leaves is called:  (a) evaporation (b) throughfall (c) transpiration								
	<ul><li>(a) evaporation</li><li>(b) throughfall</li><li>(c) transpiration</li><li>(d) stomatal conductance</li><li>(e) None of these</li></ul>								
(xv)	The downward movement of water within the soil profile is called:								
(AV)	(a) infiltration (b) leaching								
	(c) percolation (d) None of these								
(xvi)	To catch rainfall, hold <u>runoff</u> in a natural stream, divert into adjoining fields downstream and use								
()	for the production of forage, is called:								
	(a) water harvesting (b) water spreading								
	(c) erosion control (d) None of these								
(xvii)	To leave the range unit ungrazed until after seed maturity so that the better forage plants can build								
	vigor, set seed and thus improve the stand. This system of grazing is called:								
	(a) nomadic grazing system (b) rotational grazing system (c) deferred grazing system								
	(d) All of these (e) None of these								
, ,	A long period of time without effective rainfall is known as:								
	(a) aridity (b) drought								
	(c) famine (d) None of these								
(xix)	Logging and sawmilling corporation is present in:								
	(a) AJK (b) Baluchistan (c) N.W.F.P.								
( )	(d) All provinces (e) None of these								
(xx)	The animal considered very dangerous in forests and watershed region is:  (a) goat (b) buffalo (c) camel								
	(d) cow (e) None of these								
	<u>PART – II</u>								
NOTE	<ul> <li>(i) PART-II is to be attempted on the separate Answer Book.</li> <li>(ii) Attempt ONLY FOUR questions from PART-II. All questions carry EQUAL marks.</li> <li>(iii) Extra attempt of any question or any part of the attempted question will not be considered.</li> </ul>								
_	That silvicultural practices are important for improved growth, at what stage and how various avironmental factors help/affect those practices? (20)								
_	efine research. What is the importance of experimental design in research? Write the main emponents of a research paper. (20)								
	That is sustainability? What risk factors are involved in long term forestry projects? (20)								
_									
_	ifferentiate between catchment and watershed. How the rangelands in watershed region can be an aged to ensure increased quantity and improved quality of water in Pakistan? (20)								
_	That are transect and quadrat methods of vegetation survey and what is their usefulness and eplication? (20)								
<b>Q.7.</b> H	ow wildlife play its role in propagation and conservation of vegetation species? What are essentia								
fe	atures of wildlife sanctuaries? (20)								
Q.8. V	rite a short note on <b>ANY FOUR</b> of the following: (20)								
(i	· · · · · · · · · · · · · · · · · · ·								
,	) Bioengineering								
•	i) Green house effect								
	y) Forest and plantation								
•	Noise pollution and trees								
	i) Carbon sequestration								
()	ii) Natural heritage								

(viii) Environmental hazards