FEDERAL PUBLIC SERVICE COMMISSION



(a)

(c)

Conservative grazing

Proper grazing

TIME ALLOWED: (PART-I MCQs)

COMPETITIVE EXAMINATION FOR RECRUITMENT TO POSTS IN BS-17 UNDER THE FEDERAL GOVERNMENT, 2011

Roll Number

MAXIMUM MARKS: 20

FORESTRY

30 MINUTES

THREE HOURS		,			& 30 MINUTES	MAXIMUM MARKS: 80				
NO	ΓE: (i		-	RT-I (MCQs) on	separa	te Answer Sheet v	which s	shall be taken ba	ck afte	er 30
	(***	minute		4 6.41		• • • • • • • • • • • • • • • • • • • •		104		
	(ii)) Overw	riting/cut	ting of the option	is/ansv	vers will not be gi	iven cr	eait.		
				(PART-I MO	C Q s) (COMPULSORY)			
Q.1.	Se	lect the best	option/an	swer and fill in the	e appr	opriate box on the	e Ansv	ver Sheet.	(1 x 20	0=20)
(i)	Rais	ing trees on	farm areas	s is called:						
	(a)	Forestry	(b)	Social forestry	(c)	Agro-forestry	(d)	Urban forestry	(e)	None of the
(ii)		_		that even if 20,000 case by more than:		res of land is brou	ght un	der trees annuall	y the j	percentage
	(a)	0.025 %	(b)	0.05 %	(c)	0.075 %	(d)	0.1 %	(e)	None of the
(iii)	Tree	planting alo	ong farm r	oads and boundari	es is co	onsidered as:				
	(a)	Avenue planting	(b)	Linear planting	(c)	Inter planting	(d)	Compact planting	(e)	None of these
(iv)	Plan	ts those grov	w on stream	n banks are know	n as:					
	(a)	Hydrophy	te (b)	Halophyte	(c)	Mesophyte	(d)	Pheritophyte	(e)	None of the
(v)	Keep	ing health an	d care of tr	ee in view, removal	of bran	iches to improve the	e quality	y of timber is refe	rred to	as:
	(a)	Pollarding	(b)	Lopping	(c)	Pruning	(d)	Cutting	(e)	None of the
(vi)	Periodical removal of selected trees during various growth stages for the promotion of grow standing trees is known as:							th of re	emaining	
	(a)	Clearing	(b)	Cleaning	(c)	Weeding	(d)	Thinning	(e)	None of the
(vii)		s those prov		/protection to desidered as:	ired ter	dered plants durin	ng their	r early growth st	ages a	fter which
	(a)	Dominant	trees		(b)	Co-dominant tre	ees			
	(c)	Sub-domin	nant trees		(d)	Nurse trees			(e)	None of the
(viii)	Root	/shoot cuttin	ngs are als	o known as:						
	(a)	Stem cutti	ngs (b)	Roots cuttings	(c)	Stumps	(d)	Layerings	(e)	None of the
(ix)	In sh	elterwood s	ystem all t	he trees are remov	ved:					
	(a) In one installment				(b)	More than one installments				
	(c) Trees are not removed at all				(d)	None of these				
(x)	A fo	rest having a	all trees of	same species is ca	alled as	S:				
	(a)	Mixed for		Pure forest	(c)	Uniform forest	(d)	Even aged forest	(e)	None of the
(xi)	_			eds having dietary eproduction of rar		-		es and proper pro	portic	ons for
	(a)	Compleme	ental ration	1	(b)	Supplemental ra	tion			
	(c)	Balanced 1	ration		(d)	None of these.				
(xii)				eby the forage on a stage is called:	a part o	r on all of the rang	ge area	is allowed to be	graze	d after it

(b) Deferred grazing

(d) Optimum grazing

(e) None of these

EO	DEG	TDX/									
		TRY		. 1 .		. 1	1				
(X111)	•				-	to heavy grazing a				NI C.I	
	(a)	Indicator species	(b)	Decreasers	(c)	Increasers	()	Invaders	(e)	None of thes	
(xiv)	The	act of grazing ani	imals	of removing roots	wheth	er woody or herba	ceous	is know as:			
	(a)	Nibbling	(b)	Browsing	(c)	Grubbing	(d)	Grazing	(e)	None of thes	
(xv)	Extensive grasslands comprising tall grasses and scattered dwarf thorny trees located in sub-humid,										
	sub t	ropical regions o	f East	Africa and India a	are kno	own as:					
	(a)	Pampas	(b)	Prairies	(c)	Savannah	(d)	Tundra	(e)	None of thes	
(xvi)	Livii	ng cum functiona	l place	e of wild animals i	s calle	d:					
	(a)	Niche	(b)	Roosting place	(c)	Parching place	(d)	habitat	(e)	None of thes	
(xvii)	(xvii) Natality means:										
	(a)	Birth rate	(b)	Death rate	(c)	Population rate	(d)	Growth rate	(e)	None of thes	
(xviii)	A place where the natural flora and fauna is preserved, promoted, managed and is opened to visitors is called as:										
	(a) Game reserve			(b)	Wild life sanctuary						
	(c) National park				(d)	Recreational park (e)				None of thes	
(xix)	Out of total water potential of 140 MAF of Western rivers, the amount of water that flows into sea without being utilized is:										
	(a)	25 MAF	(b)	36 MAF	(c)	48 MAF	(d)	50 MAF	(e)	None of thes	
(xx)	A sm	all obstruction cor	structe	ed in a gully or othe	r water	course to decrease t	the velo	ocity of flow of v	vater is	known as:	
	(a)	Dam	(b)	Check dam	(c)	Dyke	(d)	Spillway	(e)	None of thes	
					PAR ⁷	<u>r-II</u>					
NOT	ΓE:(i) (ii) (iii	Attempt Ol	NLY I	_	from I	nswer Book. PART-II. All ques		• -		S.	

Analyse the present and future situation of forestry in Pakistan and discuss the reservations/reasons due to which farmer community is reluctant to adopt agro-forestry in Punjab. Support your answer with appropriate figures and sound arguments.

Q.3. With respect to climate, vegetation, soil, wildlife, topography and other physiographic features, discuss briefly but comprehensively different types of forest found in Pakistan and also mention their contribution in wood production. (20)

Q.4. Enlist qualities of good wood. Also discuss in detail different wood defects and their respective treatments. **(20)**

How are various range components related to each other. Briefly point out various losses of energy from Q.5. range ecosystem and also write a note on corrective measures with reference to energy losses from a

range ecosystem.

Define "Carrying capacity of a grazing land." How it is determined practically? Write the procedure 0.6. stepwise. How many sheep can be allowed to graze on 500 hectares of grazing land per month if weight of green forage per quadrat was 2 Kg and it contained 70 percent moisture contents? Size of the quadrat used for sampling was 1 x 1 m² and grazing allowed was 50 percent respectively.

Write the factors responsible for drastic decline of wildlife in Pakistan along with brief discussion of O.7. principles of sound wildlife management. Also give and justify your suggestions that how wildlife can **(20)** be promoted in the country?

Write short notes on any **FOUR** of the following: 0.8.

 $(5 \times 4 = 20)$

Forestry and eco-tourism Social forestry (a) **(b)**

(c) Agro-grazing

(**d**) Environment degradation and vegetation

(e) Conservation of natural resources (Forests, rangelands and watershed areas) as a key of national food security.

(f) Green house effects (g) Forage forestry/forest grazing. Forest Eco-system (h)
