

C.U.SHAH UNIVERSITY

Summer Examination-2017

Subject Name : Environment Science and Energy Management

Subject Code : 2TE01ESE1

Branch: Diploma(All)

Semester : 1

Date : 24/03/2017

Time : 10:30 To 01:30

Marks : 70

Instructions:

- (1) Use of Programmable calculator & any other electronic instrument is prohibited.
- (2) Instructions written on main answer book are strictly to be obeyed.
- (3) Draw neat diagrams and figures (if necessary) at right places.
- (4) Assume suitable data if needed.

Q-1	Attempt the following questions:	(14)
	a) Give the names of different regions of the atmosphere.	1
	b) What is acid rain?	1
	c) What is the use of instrument named wind vane.	1
	d) Give the name of any two conventional sources of energy.	1
	e) State the percentage of nitrogen in the atmosphere.	1
	f) What is global warming?	1
	g) Draw only the figure of dutch type wind mill.	1
	h) How much types of solar radiation are there? Which?	1
	i) Classify the wind turbines according to number of blades on rotor.	1
	j) Give the full form of C.F.C.	1
	k) Define: Complete ecosystem.	1
	l) State any two steps to save fuel in domestic appliances.	1
	m) Give any two advantages of improved smokeless cook stove.	1
	n) Define: Environment	1

Attempt any four questions from Q-2 to Q-8

Q-2	Attempt all questions	(14)
	a) Explain the regions of the atmosphere with diagram.	7
	b) Give the distinction between conventional and non-conventional sources of energy.	7
Q-3	Attempt all questions	(14)
	a) Write a short note on: Ozone layer depletion.	7
	b) Write a note on: Acid rain.	7
Q-4	Attempt all questions	(14)
	a) Explain the construction and working of Fixed dome type biogas plant.	5
	b) State the effect of terrestrial zone on solar radiation with diagram.	5
	c) Write a note on: Desert Land.	4
Q-5	Attempt all questions	(14)
	a) Explain Photosynthesis with its stages.	5
	b) Explain: Solar cooker.	5
	c) State the advantages and dis-advantages of wind – power energy.	4



Q-6	Attempt all questions	(14)
a)	Explain food chain with neat and clean diagram.	7
b)	State the applications of Renewable sources of energy.	7
Q-7	Attempt all questions	(14)
a)	Explain nitrogen cycle with diagram.	7
b)	Write down the measures to conserve energy in industrial purpose.	7
Q-8	Attempt all questions	(14)
a)	Explain Remote sensing with necessary diagram.	7
b)	Explain: Phosphorous Cycle.	7

5`G v!	GLR[GF NZ[S 5`GMGF HJFA VF5MP	(!\$)
! f	JFTFJZ6 GF H]NF H]NF IJEFUM GF GFD VF5F[P	!
Z f	T[HFAL JQFF" s V[;L0 Z[.G f SMG[SCL XSFI m	!
3 f	IJg0 J[G v ;FWGGM p5IMU X)\ K[m	!
\$ f	5Z\5ZFUT pHF" :+MTMGF SM. 56 A[GFD H6FJM	!
5 f	JFTFJZ6DF\ GF.8=MHGG)\ 5]DF6 8SFJFZLDF\ H6FJM	!
& f	u,MA, JMDL"\U V[8,[X)\ m	!
* f	0R 8F.5 IJg0 ID,GL OST VFS'IT NMZMP	!
(f	;M,FZ Z[0LI[XGGF 5]SFZM S[8,F m SIFv SIF m	!
) f	ZM8ZDF\ J5ZFTL a,[0GL ;\bIF 5ZYL IJg0 8AF".G s IJg0vDL,f G)\ JUL"SZ6 SZMP	!
!_ f	C.F.C G)\ 5}~\ GFD H6FJM	!
!! f	jIFbIF VF5M ov 5}6" IGJ;GT\+	!
!Z f	3Z[,] pHF" J5ZFXDF\ A/T6GM ARFJ SZJFGF SM.56 A[D]N'F H6FJMP	!
!# f	;\WFZ[,F IGW]"D R],FG)\ SM. 56 A[OFINFVM H6FJM	!
!\$ f	jIFbIF VF5M ov 5IF"JZ6P	!

GLR[GF SM.56 \$ 5`GMGF HJFA VF5MP

5`G vZ	GLR[GF 5`GMGF HJFA VF5MP	(!\$)
!f	IMuI VFS'IT ;FY[JFTFJZ6GF H]NF H]NF IJEFUM ;DHFJM	s*f
Zf	5Z\5ZFUT VG[1AG 5Z\5ZFUT pHF" :+MTM JrR[GF TOFJT H6FJMP	s*f
5`G v#	GLR[GF 5`GMGF HJFA VF5MP	(!\$)
!f	8)\S GM\W ,BM ov VMhMG :TZDF\ 1FITP	s*f
Zf	8)\S GM\W ,BM ov T[HFAL JQFF" s V[;L0 Z[.G fP	s*f
5`G v\$	GLR[GF 5`GMGF HJFA VF5MP	(!\$)
!f	IOS;0 0MD 8F.5 AFIMU[; %,Fg8GL ZRGF VG[SFI" H6FJMP	s5f
Zf	;M,FZ Z[10I[XG 5Z YTL JFTFJZ6GL V;Z VFS'IT ;FY[;DHFJMP	s5f
#f	8)\S GM\W ,BM ov Z6 E}IDP	s\$f
5`G v5	GLR[GF 5`GMGF HJFA VF5MP	(!\$)
!f	5]SFX ;\ ,[QF6GL 5]S]IF 4 T[GF TASSF ;FY[;DHFJMP	s5f



	Zf	;DHFJM ;M,FZ S]SZP	s5f
	#f	5JGpHF¶ GF OFINF VG[U[ZOFINF H6FJMP	s\$f
5`G v&		GLR[GF 5)`GMGF HJFA VF5MP	(!\$)
	!f	IMuI VFS'IT ;FY[5MQF6 S0L ;DHFJMP	s*f
	Zf	5]Go 5]F%I pHF":+MTMGF p5IMU H6FJMP	s*f
5`G v*		GLR[GF 5)`GMGF HJFA VF5MP	(!\$)
	!f	VFS'IT ;FY[GF.8=MHG RS ;DHFJMP	s*f
	Zf	V{FnMIUS 1F[+DF\ pHF" ;\RI DF8[GF 5U,F H6FJMP	s*f
5`G v(GLR[GF 5)`GMGF HJFA VF5MP	(!\$)
	!f	IMuI VFS'IT ;FY[N]Z;\RFZ TSIGSL sIZDM8 ;[g;L\Uf ;DHFJMP	s*f
	Zf	;DHFJM ov OM:OZ; RSP	s*f

