#### Code No: 126AF JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B.Tech III Year II Semester Examinations, May - 2016 ENVIRONMENTAL STUDIES (Electrical and Electronics Engineering)

#### Time: 3 hours

Note: This question paper contains two parts A and B.

Part A is compulsory which carries 25 marks. Answer all questions in Part A. Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 10 marks and may have a, b, c as sub questions.

#### PART - A

1.a)	What is carrying capacity and write about scope of ecosystem?	[2]					
b)	What is Bioaccumulation and write its effects on living organisms?	[3]					
c)	Classify the minerals based on properties and uses.						
d)	Write about the characteristics of water.						
e)	What is the difference between national park and reserve for st						
f)	List out at least 3 endemic and 3 endangered species of India.	[3]					
g)	Write about the concept of Bioremediation.	[2]					
h)	Differentiate deforestation and desertification.	[3]					
i)	Write a note on Environmental ethics.	[2]					
j)	Describe the concept of Green Building.	[3]					
	PART – E	(50 Marks)					
2.	Explain Energy flow models with net sketch.	[10]					
3.	Describe biomagnification and ecosystem value.	[10]					
4.	What are the user of forests and explain the causes and consequences of de	eforestation? [10]					
	OR						
5.	Explain at least 5 renewable resources along with their advantages and dis	advantages. [10]					
6.	Write about National Biodiversity act and explain the uses of biodiversity. OR	[10]					
7.	Write about threats of Biodiversity and explain the conservation Biodiversity	methods of [10]					
8.	Write the types, collection, segregation and disposal methods of solid wast <b>OR</b>	e. [10]					
9.	Write about ozone depletion and explain the complete process management.	of e-waste [10]					
10.a)	Explain Water act and Forest acts.	[5   5]					
U)		[3+3]					
11 a)	Explain the concept of EMP						
11.a) b)	Describe the Biomedical waste handling rules	[5:5]					
U)	Deserve de Diometrical waste nationing fuies.	[3+3]					

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#### Max. Marks: 75

(25 Marks)

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#### Code No: 126AG JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B.Tech III Year II Semester Examinations, May - 2016 COMPUTER METHODS IN POWER SYSTEMS Time: 3 hours (Electrical and Electronics Engineering) Max. Marks: 75

Note: This question paper contains two parts A and B. Part A is compulsory which carries 25 marks. Answer all questions in Part A. Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 10 marks and may have a, b, c as sub questions.

#### PART - A (25 Marks)

1.a)	Why the incidence matrices for a given network are not unique?	[2]
b)	What is primitive network? Write the performance equation of primitive	network in
,	admittance form.	[3]
c)	What are the limitations of Newton Raphson Method.	[2]
d)	What is advantage of acceleration factor in GS load flow methol?	
		[3]
e)	Write the objective of finding fault levels at bus.	[2]
f)	Write the applications of series reactors.	[3]
g)	A synchronous machine having E=1.2pu is monoing power to an infinite	e bus with
	voltage 1.0pu. If the transfer reactance is 0, (pu, find the steady state power li	mit.[2]
h)	What is the significance of Synchronizing power Coefficient?	[3]
i)	Write the methods to improve transient stability.	[2]
j)	Derive the swing equation.	[3]
	PART - P (50 Marks)	

- 2. Derive the expressions for Bu, admittance matrices by Singular transformation Method. [10]
  - OR
- 3. Derive the expression for adding a element between to existing buses of the existing network by using Z<sub>bos</sub> building algorithm? [10]
- 4.a) Write the necessity of power flow studies.
- b) Develop the power flow model using decoupled method and explain the assumptions to arrive at the fast decoupled load flow method. [3+7]

#### OR

- 5.a) Define load flow problem. Classify the buses in power system and discuss the important of slack bus.
  - b) Describe the Newton Raphson method for the solution of power flow equations in power systems by deriving necessary equations. [4+6]
- 6.a) Why the analysis of unsymmetrical faults can be more easily done with the help of symmetrical components than by a direct solution of the unbalanced circuit.
  - b) Three 10MVA generators each having a reactance of 0.2pu are operating in parallel. They feed a transmission line through a 30MVA transformer having a per unit reactance of 0.05. Find the fault MVA for a fault at the sending end of line. [4+6]

- 7.a) Why the phase shift in the positive sequence and negative sequence quantities through a stat delta transformer are opposite to each other?
  - b) The line current in three phase supply are  $I_a=12+j24A$ ,  $I_b=16-j2A$  and  $I_c=-4-j6A$ . The phase sequence is abc. Calculate the sequence components of currents. [4+6]
- 8.a) What is power system stability? Define stability limit of the system.
- b) A 50Hz generator of reactance 1pu is connected to an infinite bus through a line of reactance of 0.5pu. E=1.1pu and V=1pu. The inertia constant is 5MW-sec/MVA. The generator is loaded to 50% of the maximum power limit. Find the frequency of natural oscillations.

#### OR

- 9.a) Write short notes on methods to improve steady state stability of power System.
- b) Derive the expression for steady state stability limit using ABCD parameters. [4+6]
- 10.a) Why the use of automatic reclosing circuit breakers improve system stability.
  - b) What is equal area criterion? Explain how it can be used to study stability with any suitable example. [4+6]

#### OR

- 11.a) List the assumptions made in the transient stability solution te bniques.
  - b) A three phase generator delivers 1pu power to an infinite lus through a transmission network when a faulty occurs. The maximum power which can be transferred during prefault, during fault and post fault conditions is 175pu, 0.4pu and 1.25pu. Find critical clearing angle.

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### Code No: 126AH JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B.Tech III Year II Semester Examinations, May - 2016 ELECTRICAL AND ELECTRONICS INSTRUMENTATION

#### (Electrical and Electronics Engineering)

#### Time: 3 hours

#### Max. Marks: 75

**Note:** This question paper contains two parts A and B. Part A is compulsory which carries 25 marks. Answer all questions in Part A. Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 10 marks and may have a, b, c as sub questions.

#### PART - A (25 Marks)

1.a)	What are the requirements of multiplier?	[2]
b)	What are the Errors in moving iron Instruments.	[3]
c)	What is A.C potentiometer? Give the applications of A.C potentiometer.	[2]
d)	Comment for the effect of power factor of secondary circuit of potential	transformers.
		[3]
e)	Define the phantom loading.	[2]
f)	Why it is necessary to make the potential coil circuit purely resistive?	[3]
g)	What are the different methods for measurement of measurement resistance?	[2]
h)	What are the different sources of errors in a.c bringes?	[3]
i)	Classify the Transducers.	[2]
j)	Give the applications of CRO.	[3]
	$\mathbf{D} \setminus \mathbf{D}$ $\mathbf{D} = \mathbf{D} (50 \text{ Mowba})$	

- 2.a) Derive the equation for deflection of a PMMC in spring controlled.
  - b) Explain the methods for unearize of scale of repulsion type of moving iron instrument. [5+5]

#### OR

- 3.a) With neat block diagram, Explain the attracted disc type Electrometer in detailed.
- b) Discuss the sensitivity of voltmeters in detail.
- 4. Draw the equivalent circuit and phasor diagram of a current transformer. Derive he expressions for ratio and phase angle of errors. [10]

#### OR

- 5.a) Why a potentiometer does not load the voltage source whose voltage is being determined?
  - b) A Potentiometer consisting of a resistance dial having 15 steps of 10 ohm each and a series connected slide wire of 10 ohm which is divided into 100 divisions. If the working of current of the potentiometer is 15 mA and each division of the slide wire can read accurately up to 1/5 of its span. Calculate the resolution of the potentiometer in volts.



[6+4]

- 6.a) What is the lag adjustment is provide in induction type single phase energy meter?
- b) How C.T and P.T can be used to external the range of energy meter? [5+5] OR
- 7.a) Derive the torque equation of an Electrodynameter type of wattmeter.
- b) Explain why errors are large when the power factor is low.
- 8. Obtain the equations for balance in case of Maxwell's inductance and capacitance bridge with necessary phasor diagram. [10]

[6+4]

#### OR

- 9.a) Explain the loss of charge method for measuring high resistance.
- b) A highly sensitive galvanometer can detect a current as low as 0.1 nA. This galvanometer is used in a Wheatstone bridge as a detector. The resistance of galvanometer is negligible. Each arm of the bridge has a resistance of 1K ohm. The input voltage applied to the bridge is 20V. Calculate the smallest change in the resistance, which can be detected.

10.a) Explain the working principle of strain gauge. Derive its gauge factor.
b) Give the applications of thermistors. [6+4]

11. Derive the expression for vertical deflection of an electron beam in a CRT with neat sketches. [10]

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# Code No: 126AJ JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B.Tech III Year II Semester Examinations, May - 2016 STATIC DRIVES (Electrical and Electronics Engineering)

#### Time: 3 hours

Max. Marks: 75

**Note:** This question paper contains two parts A and B. Part A is compulsory which carries 25 marks. Answer all questions in Part A. Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 10 marks and may have a, b, c as sub questions.

#### PART - A

#### (25 Marks)

1.a)	Explain what is meant by rectification mode?	[2]
b)	What is the principle of phase control?	[3]
c)	What is four quadrant operation? Explain.	[2]
d)	Draw the equivalent circuit of dual converter driving a dy motor.	[3]
e)	Give three advantages of chopper drives compared to rectifier drives.	[2]
f)	What are the two control strategies of dc chopper?	[3]
g)	What are the applications of rotor resistance control?	[2]
h)	What are the advantages of Kramer drive compared to scherbius drive?	[3]
i)	What are the applications of load commutated CSI fed synchronous motor?	[2]
j)	Explain briefly about closed loop operation of synchronous motor drive.	[3]



#### (50 Marks)

- 2.a) Derive the expression or critical speed which separates continuous conduction from discontinuous conduction for a  $1-\Phi$  full converter fed separated excited dc motor.
  - b) A 200V, 875 rpm, 150A separately excited dc motor has an armature resistance of 0.06 ohm. It is fed from a single phase fully controlled rectifier with an a.c source voltage of 220V, 50Hz. Assuming continuous conduction mode. Calculate:

i) Firing angle for rated motor torque and 750 rpm

ii) Firing angle for rated motor torque and 500 rpm

iii) Motor speed for a firing angle of  $160^{\circ}$  and rated torque. [5+5]

#### OR

- 3.a) Derive the relation between speed and torque of a single phase full wave converter feeding a series excited dc motor for continuous mode of operation and draw its speed-torque characteristics.
  - b) Explain the effect of armature inductance on the performance of a d.c drive. [5+5]
- 4.a) Draw the speed torque characteristics for dynamic braking of d.c series motor. Why torque becomes zero at finite speed?
  - b) Discuss relative merits and demerits of four quadrant d.c drives employing noncirculating and circulating current dual converters. [5+5]

- **5.**a) Draw speed torque characteristic for regenerative braking operation of a d.c shunt motor and explain the operation.
  - b) Explain the principle of operation of closed loop control of dc drive using suitable block diagram. [5+5]
- 6.a) Derive the expressions for average motor current, ripple in motor currents and average torque for chopper fed separately excited d.c motor.

b) A dc chopper is used for regenerative braking of a separately excited d.c motor. The dc supply voltage is 400V. The motor has  $R_a=0.2\Omega$ ,  $K_m=1.2V$ -S/rad. The average armature current during regenerative braking is kept constant at 300A with negligible ripple. For a duty cycle of 60% for a chopper, determine i) Power returned to supply

ii) Minimum and maximum permissible braking speeds and speed during regenerative braking. [5+5]

#### OR

- 7. Explain in detail the two quadrant and four quadrant operation of chopper fed separately excited DC motor. [10]
- 8.a) Explain plugging operation of  $3-\Phi$  induction motor and also explain how it is implemented using AC voltage controllers.
- b) Explain why stator voltage control is an inempie.t method of induction motor speed control. [5+5]
- 9.a) Discuss about the different speed contromethods of induction motor from rotor side.
- b) Draw a suitable diagram and explain the working of slip power recovery system using static Scherbius drive. [5+5]
- 10. With suitable circuit diagram, explain the principle of operation of current source inverter fed synchronous notor crive. [10]

#### OR

- 11.a) Explain the operation of a cyclo-converter fed synchronous motor.
  - b) Explain the operation of a load commutated CSI fed synchronous motor. [5+5]

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#### Code No: 126AK

#### JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B.Tech III Year II Semester Examinations, May - 2016 MICROPROCESSORS AND INTERFACING DEVICES (Electrical and Electronics Engineering)

#### Time: 3 hours

1.a)

b)

c)

d)

e) f)

g)

h)

i)

i)

**Note:** This question paper contains two parts A and B.

Part A is compulsory which carries 25 marks. Answer all questions in Part A. Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 10 marks and may have a, b, c as sub questions.

### PART - A

#### What is meant by Memory segmentation? [2] Name the special purpose registers and write the function of each register. [3] Give the CALL instruction operation. [2] Name different types of assembler directives, explain an [3] Define interrupt service routine. [2] Compare Static and Dynamic memories. [3] Define prototype. Explain the serial data transfer schemes operation. Compare microprocessor and microcontrollen. List different instruction set groups of 8051 µc. [3] XT - B Draw read and write timing dia rams of 8086-Maximum mode. 2.a)

- Draw the structure of 80% flag register and explain the bits. b) [5+5]OR
- Explain the Register set of 8086 processor. 3.a)
- Write short note on interrupt structure of 8086. b) [5+5]
- Write a sorting program in 8086 assembly language in a Ascending order. 4.a)
- Write an assembly language program to solve the expression  $7x^2 + 3x + 10 = y(x)$ . b) [5+5]

#### OR

Write an assembly language program to find whether the given number is prime or not? 5.a) Explain the addressing modes of 8086. b) [5+5]

- 6.a) Draw the structure of 8086 interrupt vector table and explain.
- Explain the significance of cascading 8259 controller. b) [5+5]

#### OR

- 7.a) Interface a typical 12-bit DAC with 8255 and write a program to generate a Square waveform of period 10ms. The CPU run at 5 MHz clock frequency.
  - Explain why 8255 ports are divided into two groups? Discuss how these groups are b) controlled in different modes of operation? [5+5]

(25 Marks)

# (50 Marks)

[3]

[2]

[2]

Max. Marks: 75

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- 8.a) Explain TTL to RS 232C and explain high speed serial communication standards and USB.
- b) Explain Asynchronous transmission in serial mode. [5+5]

### OR

- 9.a) Explain the line driver and the line receiver circuits of serial communication.
- b) What do you mean by I/O mapped I/O? Draw the interfacing of 8251 with 8086 in I/O mapped I/O mode. [5+5]
- 10.a) Explain various operation modes of Timer-1 and Timer-0.
  - b) Describe the Timer control (TCON) and Timer mode control (TMOD) registers. [5+5]

#### OR

11. Explain the various addressing modes of 8051 with suitable example. [10]



## Code No: 126EA JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B.Tech III Year II Semester Examinations, May – 2016 INTELLECTUAL PROPERTY RIGHTS (Common to EEE, ME, ECE, CHEM, EIE, IT, MCT, MMT, AE, AME, MIE, AGE)

#### Time: 3 hours

Max. Marks: 75

Note: This question paper contains two parts A and B. Part A is compulsory which carries 25 marks. Answer all questions in Part A. Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 10 marks and may have a, b, c as sub questions.

#### PART - A

		(25 Marks)
1.a)	List out the types of intellectual property rights.	[2]
b)	Discuss the treaties of Intellectual property rights.	[3]
c)	What is the purpose of trademark?	[2]
d)	Discuss about the protectable matter.	[3]
e)	What is rights of reproduction?	[2]
f)	State international copyright law.	[3]
g)	Define trade secret law.	[2]
h)	Discuss about false advertising.	[3]
1)	What are new developments in trademark law?	[2]
J)	Explain international property audits.	[3]
	PART - B	
		(50 Marks)
2.	With an example, outline the importance of intellectual property rights. OR	[10]
3.	Explain the historical view of intellectual property rights.	[10]
4.	Explain the procedure for registration of trade marks. What are the	e effects of
		[10]
5	With the help of an example explain the process for acquisition of tradema	rk rights
5.	with the help of an example explain the process for acquisition of tradema.	rk rights.
		[10]
6.	List out the issues involved in copyright ownership.	[10]
	OR	
7.	Explain the process involved for searching of a patent.	[10]
8.	State and explain the trade secret Law. Explain the liability for misappr	opriations of
	trade secrets.	[10]
	OR	
9.	Discuss the legalities involved in protecting against unfair competition.	[10]
10.	Describe in detail about the international development in patent law.	[10]
	OR	
11.	What are the new developments in copy right law and patent law? Explain.	[10]
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# AGE)

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www.jntuhweb.com Code No: 126EB JAWAHARLAE NEHRU TECHNOLOGICAE UNIVERSITY HYDERABAD B. Tech III Year II Semester Examinations, May - 2016 HUMAN VALUES AND PROFESSIONAL ETHICS (Common to EEE, ME, ECE, EIE, IT, MCT, AE, MIE, PTE, AGE) ime: 3 hours Max. Marks: 75	К9
This question paper contains two parts A and B. Part A is compulsory which carries 25 marks. Answer all questions in Part A. Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 10 marks and may have a, b, c as sub questions.	КЭ
PART - A (25 Marks)	kø
<ul> <li>a) What is the need for 'Value Education' in technical and other professional institutions?</li> <li>[2]</li> <li>b) What is the difference between 'belief' and 'understanding'?</li> <li>[3]</li> <li>c) Suggest any 2 programs that you can undertake to improve the health of your body?</li> <li>d) How do we go into conflicts when our activities are not guided by one natural acceptance?</li> <li>[3]</li> <li>e) Explain the term "Anu – Sangita".</li> <li>[2]</li> <li>f) What can be the basis of an undivided society- the 'You'd family"?</li> <li>[3]</li> <li>g) Define sah-astifiva?</li> <li>[4]</li> <li>[5]</li> <li>[6]</li> <li>[7]</li> <li>[8]</li> <li>[9]</li> <li>[9]</li> <li>[1]</li> <li>[1]</li> <li>[2]</li> <li>[2]</li> <li>[3]</li> <li>[3]</li> <li>[4]</li> <li>[4]</li> <li>[5]</li> <li>[6]</li> <li>[7]</li> <li>[8]</li> <li>[9]</li> <li>[9]</li> <li>[1]</li> <li>[1]</li> <li>[2]</li> <li>[2]</li> <li>[3]</li> <li>[4]</li> <li>[4]</li> <li>[5]</li> <li>[6]</li> <li>[7]</li> <li>[8]</li> <li>[9]</li> <li>[9]</li> <li>[1]</li> <li>[1]</li> <li>[2]</li> <li>[2]</li> <li>[3]</li> <li>[4]</li> <li>[4]</li> <li>[5]</li> <li>[6]</li> <li>[7]</li> <li>[8]</li> <li>[9]</li> <li>[9]</li> <li>[1]</li> <li>[1]</li> <li>[2]</li> <li>[2]</li> <li>[3]</li> <li>[4]</li> <li>[4]</li> <li>[5]</li> <li>[6]</li> <li>[7]</li> <li>[8]</li> <li>[8]</li> <li>[9]</li> <li>[9]</li> <li>[1]</li> <li>[1]</li> <li>[2]</li> <li>[2]</li> <li>[3]</li> <li>[4]</li> <li>[4]</li> <li>[5]</li> <li>[6]</li> <li>[7]</li> <li>[8]</li> <li>[8]</li> <li>[9]</li> <li>[9]</li> <li>[1]</li> <li>[1]</li> <li>[2]</li> <li>[2]</li> <li>[3]</li> <li>[4]</li> <li>[4]</li> <li>[5]</li> <li>[6]</li> <li>[7]</li> <li>[8]</li> <li>[8]</li> <li>[9]</li> <li>[9]</li> <li>[9]</li> <li>[9]</li> <li>[9]</li> <li>[9]</li> <li>[1]</li> <li>[1]</li> <li>[1]</li> <li>[2]</li> <li>[2]</li> <li>[3]</li> <li>[4]</li> <li>[4]</li> <li>[4]</li> <li>[5]</li> <li>[6]</li> <li>[6]</li> <li>[7]</li> <li>[8]</li> <li>[8]</li> <li>[9]</li> <li>[9]</li> <li>[9]</li> <li>[</li></ul>	K9
PARF-B (50 Marks)	K S
<ul> <li>Justify the role of soft exploration as in the process of Value Education?</li> <li>What are pre conditions? What is their source? [5+5]</li> </ul>	
b.a)      Critically examine the prevailing notion of happiness and prosperity and their states of happiness and prosperity?         b)       What is the true essence of happiness and prosperity?	K9
<ul> <li>What are the consequences of confusion between Sukh and Suvidha?</li> <li>"Human being is more than just the Body"- explain? [5+5]</li> <li>Why are the Physical facilities required? What do you mean by right utilization of Body?</li> <li>How does realization and understanding lead to definiteness of human conduct? [5+5]</li> </ul>	K9

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6.a) The r b) What	major crisis in tod t is "Justice" what	lay's society is that are its four el	hat of Trust and a ements? Is it a o	Respect-Elucidate	e? emporary_need? [5+5]	
7.a) Expla	ain the dimension	ons of human	Endeavour in s	society conduciv	e to manaviya	
b) What	astha? t is the meaning o	f Education and	Sanskara? How	does Sanskara fo	llow education?	
* * *** * * * *						* * **** * * * *
8.a) Brief	Iv explain the hol	istic perception	i، یت of harmony at al	llevels of exister		**************************************
b) Desc	ribe the recyclabi	lity and self-reg	ulation of nature.		[5+5]	
9.a) Expla	ain the four order	s in nature.	OR			
b) - Diffe	rentiate.between	units and space.	How are units se	elf-organized in s	pace?[5+5]	
10. Ment	tion the steps that	at vou can take	to promote ethi	ics among vour	colleagues over	* * *
uneth	nical practices pre	vailing?		ios annong your	[10]	
11.a) Expla	ain the holistic alt	ernatives and de	OR scribe the vision	for the holistic a	lternatives	
b): Expla	ain the competend	ce process in pro	fessional ethics.		[5+5]	X X X X X X X X X X X X X X X X X X X
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JAWA	B:Tech III	Year II Semest DISASTER N	er Examination	s, May - 2016	
(Common Time: 3 hou	i to EEE, ME, EC rs	CE, CHEM, EIE,	BME, IT, AE, AN	AE, MIE, PTE, N N	ASNT, AGE) Aax. Marks: 75
Note: This c Part A consis 10 ma	question paper co A is compulsory sts of 5 Units. An arks and may hav	ontains two parts which carries 2: nswer any one fu ye a, b, c as sub q	A and B. 5 marks. Answer 11 question from uestions.	all questions ir each unit. Each	n Part A. Part B question carries
		PA	RT - A		(25 Marks)
<ul> <li>1.a) What</li> <li>b) How to</li> <li>c) Give to</li> <li>d) What</li> <li>e) Distint</li> <li>f) What</li> <li>g) What</li> <li>h) What</li> </ul>	is environmenta to prevent a Haze examples of Plar are various type guish between to monitoring syste are the hazardou causes earthqual	l hazard? ard from changin hetary Hazards. s of environment copical cyclones ems are used for us effects of volca kes?	ng into a disaster? al Hazards? and local storn s. tracing the path o anoes?	or cyclones?	$   \begin{bmatrix}     2 \\         \begin{bmatrix}         3 \\         \end{bmatrix}    \begin{bmatrix}         2 \\         \end{bmatrix}    \begin{bmatrix}         3 \\         \end{bmatrix}    \begin{bmatrix}         3 \\         \end{bmatrix}    \begin{bmatrix}         2 \\         \end{bmatrix}    \begin{bmatrix}         3 \\         \end{bmatrix}    \begin{bmatrix}         3 \\         \end{bmatrix}    \begin{bmatrix}         3 \\         \end{bmatrix}    \begin{bmatrix}         3 \\         \end{bmatrix}    \end{bmatrix}   $
i) What j) List th	are the three stag	ges of disaster ma activities to redu	anagement? the impact of <b>ART - B</b>	cyclones.	[2] [3] 
2.a) Distin b) Descr differe	iguish between to ibe Ecosystem ent from the perc	nvironmental str approach to mir aption approach	ess, hazard and d tigate environme ? <sup>†</sup> <sup>†</sup> O <b>R</b>	isaster giving ex ental stress. In	amples. what way it is 
3.a) How ( b) How (	does human per does landscape a	ception changes	with environmen	tal degradation?	Discuss. ve examples
4.a) How i b) Droug	is environmental ght and floods oc	hazard linked to cur in the same r	ecology? Explai region but at diffe	n with respect to erent times. Expl	[5+5] Drought. ain the reason. [5+5]
	anich hotmore	ndogonous and -	OR	a giving around	[5+5]
b) Under	r what category v	will cyclones con	ne? Explain with	reasons.	[5+5]
6.a) In wh	at Zones earthq	uakes occur in I	ndia? Explain th	e reason why it	occurs in those

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	7.a) What b) Discus	are the environments the methods the	nental effects due nat can be adopte	<b>DR</b> to volcanic erup ed to reduce the e	otion? <sup></sup>	eruption. [5+5]	
!	<ul> <li>8.a) Under</li> <li>b) What impace</li> <li>9.a) Describility</li> <li>b) Describility</li> </ul>	what category ware toxic chemic t of such events? ibe the areas of f ibe at least three	vill you put Bhop als and describe 	bal Gas tragedy in a few measures to 	n India? hat can be taken 	to reduce the [5+5] bod disaster. [5+5]	
	10.a). What b) Relate explai people	are the predisast the building control of the building	ter measures take ollapse during ea post disaster me te situation.	en to manage ear arthquake to imp easures undertake	thquake disaster? pact of earthqua en to mitigate th	ke disaster and he sufferings of [5+5]	
!	11.a) Descr .b)What Expla	ibe the measures pre disaster me in.	taken during a la easures. would ha	and slide disaster ave reduced the	impact of land	slidedisaster? [5+5]	
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