



COLLEGE OF ENGINEERING, PUNE

(An Autonomous Institute of Government of Maharashtra.)
SHIVAJI NAGAR, PUNE - 411 005

END Semester Examination

(ML-603) Environmental Studies

Course: M.Tech

Branch: Electrical and Non-Electrical Branches

Semester: Sem III

60 marks

2014-2015

Duration: 3 Hours Time: 10-1

19 NOV 2014

Instructions:

MIS No.

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1. Figures to the right indicate the full marks.
2. Mobile phones and programmable calculators are strictly prohibited.
3. Writing anything on question paper is not allowed.
4. Exchange/Sharing of anything like stationery, calculator is not allowed.
5. Assume suitable data if necessary.
6. Write your MIS Number on Question Paper.

Q. 1a	Mark the statement as true (T) or false (F) with suitable explanation.	05
	<p>i) Engineers have to play significant role in environmental management.</p> <p>ii) Any study of the environment has to be interdisciplinary.</p> <p>iii) Personal habits matter for the betterment of the environment.</p> <p>iv) Government imposed the ban on use of plastic carry bags.</p> <p>v) Environmental awareness course is introduced because of the proactive government.</p>	

Q. 1b	Attempt the following : (any two)	05
	<ul style="list-style-type: none"> i) Justify, "Think globally, and act locally". ii) Describe any two anthropogenic disasters. iii) Explain the concept of ecological footprint. 	
Q. 2a	Match the followings with reasons:	05
	<ul style="list-style-type: none"> i) Soil erosion ii) Depletion of water table iii) Natural resources iv) Solar energy v) Jungle bachao andolan a) Sustainable development b) Water management c) Bihar d) Deforestation e) Inexhaustible 	
Q. 2b	Explain the following: (any two)	05
	<ul style="list-style-type: none"> i) Sustainable development of food. ii) Nonrenewable energy. iii) Effect of dam construction on environment. 	
Q. 3a	Define and explain:	05
	<ul style="list-style-type: none"> i) Consumers ii) Food chain iii) Biomass iv) Ecosystem v) Decomposers 	
Q. 3b	Describe in brief: (any two)	05
	<ul style="list-style-type: none"> i) Any two terrestrial ecosystem with their components. ii) Services provided by different ecosystem. iii) Role of producers in ecosystem. 	
Q. 4a	Differentiate between:	05
	<ul style="list-style-type: none"> i) Vulnerable and extinct species ii) Alpha and community biodiversity iii) Native and exotic species iv) <i>Ex-situ</i> and <i>in-situ</i> conservation 	
Q. 4b	Describe with examples: (any two)	05
	<ul style="list-style-type: none"> i) Biosphere reserves 	

	<ul style="list-style-type: none"> ii) Habitat fragmentation iii) Keystone species 	
Q. 5a	Write full forms of the followings with suitable explanation	05
	<ul style="list-style-type: none"> i) CDM ii) PUC iii) SOx iv) NOx v) COD 	
Q. 5b	Write on : (any two)	05
	<ul style="list-style-type: none"> i) Non-conventional energy sources ii) Bio magnification iii) Ganga action plan 	
Q. 6a	Fill in the blanks with brief explanation:	05
	<ul style="list-style-type: none"> i) Population explosion has occurred in the last _____ <ul style="list-style-type: none"> a) 150 years b) 300 years c) 500 years d) 700 years ii) Government of India was first to introduce _____ <ul style="list-style-type: none"> a) Green revolution b) Family planning program c) Space program d) White revolution iii) Ozone layer occurs in _____ <ul style="list-style-type: none"> a) Lithosphere b) Stratosphere c) Troposphere d) Pyrosphere iv) _____ is considered as greenhouse gas. <ul style="list-style-type: none"> a) CFC b) Freon c) Oxygen d) Nitrogen v) About _____ population of India lives in villages. <ul style="list-style-type: none"> a) 50 % b) 60% c) 70% d) 80 % 	
Q. 6b	Answer the following : (any two)	05
	<ul style="list-style-type: none"> i) Environmental Impact Assessment ii) Wild life protection act iii) Express the views on proper environmental strategies to maintain ecological balance. 	