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| Reg. No. : | |
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Question Paper Code: 71636

B.E./B.Tech. DEGREE EXAMINATION, APRIL/MAY 2015.

Fifth Semester

Mechanical Engineering

GE 2021/GE 32/GEU 024/080100016/080380015 — ENVIRONMENTAL SCIENCE AND ENGINEERING

(Common to Sixth Semester - Petroleum Engineering, Fifth Semester Acronautical Engineering, Automobile Engineering, Electronics and
Communication Engineering, Production Engineering, Mechanical and Automation
Engineering and Petrochemical Engineering, Fourth Semester - Biomedical
Engineering and Geoinformatics Engineering, Third Semester - Civil Engineering,
Computer Science and Engineering, Information Technology, Textile Chemistry,
Pharmaceutical Technology and Petrochemical Engineering)

(Also Common to HS 1201 – Environmental Science and Engineering for Fifth
Semester – Electronics and Communication Engineering, Fourth Semester –
Biomedical Engineering and Third Semester – Computer Science and Engineering
and Information Technology also common to 10177 GE 001 for Fifth Semester –
Aeronautical Engineering, Automobile Engineering, Electronics and Communication
Engineering, Mechanical Engineering and Textile Technology, Fourth Semester –
Biomedical Engineering, Third Semester – Civil Engineering, Computer Science and
Engineering and Information Technology)

(Regulation 2008/2010)

Time: Three hours

Maximum: 100 marks

Answer ALL questions.

PART A - (10 × 2 = 20 marks)

- 1. Define food web.
- 2. List some of the hot spots of biodiversity in India.
- 3. Give the hazards caused by marine pollution.
- 4. Define BODs.
- 5. Give any two problems associated with chemical fertilizer usage.

| 6. | De | efine eutrophication. | | |
|-----|--|---|-----------|--|
| 7. | | | | |
| 8. | W | What is acid rain: What is sustainability in context to environment? | | |
| 9. | Expand HIV. What is value education? Give its significance. | | | |
| 10. | | PART B — (5 × 16 = 80 marks) | | |
| 11. | (a) | Describe the structure and function of fresh water ecosystem. | | |
| | | Or | | |
| | (b) | Explain the various threats to biodiversity along with the mean conserve them. | ns t | |
| 12. | (a) | Explain the health effects and control measures of air pollution. | | |
| | | Or Co | | |
| | (b) | (i) Explain about the global health effects of nuclear war. | | |
| | | (ii) Give in detail the role of an individual to prevent and control municipal solid waste generation. | the | |
| 13. | (a) | Describe the problems associated with the over exploitation of for resources. | est | |
| | | Or | | |
| | (b) | (i) What is Chipko movement? | (4) | |
| | | resources and since | nd 12) | |
| 4. | (a) | Write short notes on : | | |
| | | (i) Wild life protection Act. | (5) | |
| | | Role of Central and Chan Pollution Control Boards | (6) | |
| | | (iii) Rain water harvesting. | (5) | |
| | (b) | Decort Or | | |
| | | Describe the issues about climate change and give solutions for solutions problem. | ving | |

15. (a) Describe the role of information technology in environment and human health.

Or

(b) Write short notes on:

(i) Population explosion (8)

(ii) Role of an individual in conservation of natural resources. (8)