

Roll No

ELIC-7202

B.E. VII Semester

Examination, December 2016

Environmental Instrumentation

Time : Three Hours

Maximum Marks : 70

Note: i) Answer five questions. In each question part A, B, C is compulsory and D part has internal choice.

ii) All parts of each question are to be attempted at one place.

iii) All questions carry equal marks, out of which part A and B (Max.50 words) carry 2 marks, part C (Max.100 words) carry 3 marks, part D (Max.400 words) carry 7 marks.

iv) Except numericals, Derivation, Design and Drawing etc.

1. a) How to characterize the waste material?
- b) What are the sources of pollutions and their characterization by means of types?
- c) How to Minimize the SWM and MSW with mechanism?
- d) What is the Solid waste management Rules 2016?

OR

What are the MSW law and Legislation designed by M.P.PCB?

2. a) What is Smog? How it is form describe in short?
- b) What are the methods of air pollution measurements and give the name of supporting equipment for it?
- c) What are the dust collectors, colorimetry and radioactivity detectors?
- d) What are the Air Pollution Control Equipments? Describe in details.

OR

Explain the Stack monitoring in details.

3. a) What is standards of water effluents and drinking water?
- b) What are the water monitoring equipments?
- c) What are the differences between Aerobic and anaerobic digestion?
- d) What are the water Treatment Method explain in details?

OR

What are the colorimetric, spectrometric and remote sensing technique explain in details?

4. a) What is Land Pollution?
- b) What are the standards of collection color coding vessels for wastes?
- c) What are equipments used in during handling of wastes?
- d) What are soil characteristics and how to prevent soil pollution?

OR

Explain in details how to control Noise Pollution by equipment.

5. a) What are industrial pollutions?
- b) What is EHS Policy of Chemical Industries?
- c) What are available Clean development mechanism inside Chemical Industries?
- d) How to Control Pollution in Cement Industries in details?

OR

What are the control instruments in petrochemical plants, explain in details?
