

Tuesday
11:00 to 1:30 pm

Q.P. Code : 08277

(2½ Hours)

[Total Marks :60

- N.B. : (1) All Questions are compulsory.
(2) Figures to the right indicate full marks.
(3) Draw diagram wherever necessary.

1. Answer any two questions from the following :-
- (a) Explain conventional potable water treatment on the basis of a flow diagram. 6
 - (b) Describe suspended floc type biological treatment and explain any one method based on suspended floc type principle. 6
 - (c) Discuss sludge conditioning and drying method for disposal of sludge. 6
2. Answer any two questions from the following :-
- (a) What are the sources of Nitrogen oxide emissions ? Describe any one control method for NOx emissions. 6
 - (b) How will you improve the indoor air quality through source control and air cleaners ? 6
 - (c) Explain exhaust gas recirculation and after burner method to control vehicle emissions. 6
3. Answer any two questions from the following :-
- (a) Explain important components of Hazardous waste management. 6
 - (b) Describe radioactive waste disposal methods. 6
 - (c) Describe secured landfill method. 6
4. Answer any two questions from the following :-
- (a) Explain treatment and disposal of plastic waste. 6
 - (b) What is biomedical waste ? How should it be disposed ? 6
 - (c) Explain E-waste (Handling and Management) Rules 2011. 6
5. Answer any four questions from the following :-
- (a) Disinfection in water treatment. 3
 - (b) Thermal incineration 3
 - (c) Sources of hazardous waste 3
 - (d) Minimum National Standards (MINAS) 3
 - (e) Color coding for biomedical waste segregation 3
 - (f) Fuel Desulphurization technique. 3