



SE-8263

B. E. - III (Sem. V) (Civil) Examination

May/June - 2011

Environmental Engg.

(New Course)

Time : 3 Hours]

[Total Marks : 100

Instructions :

(1)

नीचे दशांशवैक निशानीवाणी विगतो उत्तरवडी पर अवश्य लपवी.
Fillup strictly the details of signs on your answer book.

Name of the Examination :
B. E. - 3 (Sem. 5) (Civil)

Name of the Subject :
ENVIRONMENTAL ENGG. (NEW)

Subject Code No. : 8 2 6 3 Section No. (1, 2,.....): Nil

Seat No. :

Student's Signature

- (1) Attempt all questions.
- (2) Figures to the right indicates full marks.
- (3) Draw figure where necessary.
- (4) Assume any data where necessary

- 1 (a) Explain the components of environment and discuss the role of microbes in maintaining ecological balance. 8
- (b) Describe the chemical characteristics of domestic water. 7
- 2 (a) Explain in brief Environment Impact Assesment and what is environmental audit. 7
- (b) Discus the effect of organic pollution on river water quality. 7

OR

- (b) What are the sources of noise pollution ? Explain its effect on human being. 7

- 3** Attempt any **three** : **7×3=21**
- (i) Describe the Indian standards for drinking water in terms of pH, colour, turbidity, hardness and residual free chlorine.
 - (ii) What are the factors affecting self purification of stream?
 - (iii) How does the water quality criteria differs for industrial supplies from those for domestic municipal supplies.
 - (iv) What are the various methods of disposal of buated waste water ? Explain any one in detail.
 - (v) Name some water borne disease and suggest how to control those diseases.
- 4** (a) Answer in one sentence or so : **5**
- (i) Name the pipe which is used to carry human excreta.
 - (ii) Which trap is provided at the external face of a wall ?
 - (iii) Write full form of PAN.
 - (iv) Name any two secondary air pollutants.
 - (v) What is land filling in solid waste management ?
- (b) What is Trap ? Discuss the types of traps according to their shapes. **8**
- (c) Enlist different sanitary fittings. Discuss working of flushing cistern with neat sketches. **7**
- 5** (a) Define the following : **3**
- (i) Refuse
 - (ii) Garbage
 - (iii) Rubbish
- (b) Attend any **two** : **12**
- (i) What is solid waste management ? Describe it with flow diagram indicating its all functional elements.
 - (ii) Discuss different methods of disposal of solid waste.
 - (iii) Explain various ethods of collection of solid waste.
- 6** Attend any **three** : **15**
- (i) Define Air Pollution. Discuss sources of Air Pollution.
 - (ii) Discuss effects of air pollution on men, material and animals.
 - (iii) Describe different primary and secondary air pollutants.
 - (iv) Describe the single pipe system and two pipe system of plumbing with sketches.
 - (v) What is water seal ? Draw the sketches of S-trap and Gully trap.