

**2009****M.Sc.****2nd Semester Examination****GEOGRAPHY****PAPER—GR-1204****Full Marks : 40****Time : 2 Hours**

*The figures in the right-hand margin indicate full marks.*

*Candidates are required to give their answers in their own words as far as practicable.*

*Illustrate the answers wherever necessary.*

**Write the answer Questions of each Unit in separate books**

**Unit-19****(Environment-II)**

**1. Answer any one question : 1×8**

- (a) Discuss the mechanism of discrete particle setting in a settling tank. Calculate the retention time of waste water flowing at a rate of  $30\text{m}^3/\text{min}$  to a tank  $1500\text{m}^3$  in size. Define activated sludge. 5+2+1
- (b) Explain the mechanism of cascade impactor for the measurement of particulate matter. What are the

*(Turn Over)*

standard modifications made in the internal combustion engine to control automobile emission?

4+4

2. Answer any *two* questions :

4×2

- (a) Discuss the use of infrared spectro-photometer for the measurement of carbon monoxide.
- (b) How does the noise pollution affect human health?
- (c) Classify the solid-wastes on the basis of their sources and discuss their salient characteristics with special reference to risks and composition.
- (d) Why is the use of pesticide more dangerous in developing countries than the developed one?

3. Answer any *two* from the following :

2×2

- (a) What do you mean by pararosavilline method?
- (b) Why do the hazardous wastes need special care for their handling?
- (c) What are the sources of community noise?
- (d) How is the CH<sub>4</sub> emission increased from agricultural field?

**Unit-20****(Environment-III)**

1. Answer any one from the following : 1×8

- (a) Classify environmental hazards based upon causative geophysical processes, magnitude and frequency. Elaborate the key characteristics of each class with examples.
- (b) Discuss *epidemiology* of any contemporary faunal disease with comments on *endemic*, *epidemic* and *pandemic* phases.

2. Answer any two from the following : 4×2

- (a) Identify the *types* of plate movement along with *risk perception* in each case.
- (b) Enumerate the *factors* responsible for landslide.
- (c) Discuss the physical causes of draught.
- (d) Why does hazard perceptions of scientists differ from those of general public?

3. Draw parallel between any *two* of the following couples of terms, with examples. 2×2

(a) Define *income* and *colorie* poverty line.

(b) Risk and Vulnerability.

(c) Natural and Quasi-natural hazard.

(d) Forecaste and Prediction.

---