M.A/M.Sc. 2nd Semester Examination, 2011

GEOGRAPHY

PAPER-GEO-204

Full Marks: 40

Time: 2 hours

The figures in the right-hand margin indicate marks

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

Illustrate the answers wherever necessary

UNIT-XIX

(Environmental Engineering)

GROUP -- A

1. Answer any one question:

 8×1

(a) Explain with necessary illustrations, the standard techniques for reduction of automobile emission.

(b) Explain the expression representing energy balance in a settling tank for removal of suspended particles.

GROUP - B

- 2. Answer any two questions:
 - (a) Elucidate the physiological impacts of noise.
 - (b) Discuss with illustration the functional mechanism of cascade impactor for sampling air pollution.
 - (c) How is the public health protected through managing waste?
 - (d) Discuss the principle of activated sludge treatment.

GROUP - C

- 3. Answer any two questions:
 - (a) What are the ecological impacts of harming non-target species by using pesticides?

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- (b) How does an ESP function?
- (c) How is the scrubber solution used to reduce pollutants?
- (d) Mention the techniques to reduce industrial noise.

UNIT-XX

(Environmental Hazards)

GROUP - A

1. Answer any one question:

- 8×1
- (a) Discuss the causes and types of earthquake hazard and comment on preparedness for such hazard.
- (b) What is meant by social pathology? Enumerate and discuss the environmental factors responsible for delinquent behaviour mentioning their types under IPC.

GROUP -- B

- 2. Answer any two questions:
 - (a) Why crime is considered as an import social hazard?
 - (b) Under what circumstances an endemic dise culminates into its epidemic and pander phases?
 - (c) Differentiate *income* poverty line from *cale* poverty line and explain poverty cycle.
 - (d) Elaborate the concepts of hazards a disasters.

GROUP - C

- 3. Draw parallel between any *two* of the follow couples of terms with examples:
 - (a) Vulnerability and Risk.

- (b) Risk perception and Risk assessment.
- (c) Dimensions of hazard and Response to hazard
- (d) Biophysical hazard and Social hazard.