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PG/HS/GEO-204/16

MA/M.Sc. 2nd Semester Examination, 2016

GEOGRAPHY

PAPER – GEO-204 (Unit-19 & 20)

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

**Write the answers to questions of each Unit
in separate answer scripts .**

UNIT – 19

(Environmental Engineering)

[Marks : 20]

GROUP – A

(Turn Over)

(2)

1. Answer any *one* question : 8 × 1

- (a) Make a comparison in composition of municipal solid waste between developed and developing countries and discuss the methods of quantifying municipal solid waste.
- (b) Enumerate the methods for estimating particulate and gaseous pollutants in air.

GROUP – B

2. Answer any *two* questions : 4 × 2

- (a) Explain the role of anerobic bacteria for arsenic pollution.
- (b) Enumerate health effects of noise.
- (c) Explain working principle of an oxidation pond in waste water treatment.
- (d) Give a classification of biomedical wastes.

(3)

GROUP – C

3. Answer any *two* questions : 2 × 2
- (a) How is stack pollution checked ?
 - (b) What do you mean by "flocculent settling" ?
 - (c) Define "Sludge Volume Index".
 - (d) Mention the effects of radio-active pollution.

UNIT – 20

(*Environmental Hazards and Management*)

[Marks : 20]

GROUP – A

1. Answer any *one* question : 8 × 1
- (a) Discuss the concepts, paradigm and classification of Hazards and Disasters.
 - (b) When does a hazard culminate into disaster ? Explain the method of vulnerability analysis with reference to earthquake and landslide in Himalayan region.

(4)

GROUP – B

2. Answer any *two* questions : 4 × 2

- (a) What is the risk perception and assessment method of social hazards with reference to crime and trafficking ?
- (b) Discuss the causes and consequences of animal induced hazards in reference to elephant migration.
- (c) Discuss trauma and aftermath of earthquake disaster.
- (d) Discuss the role of education for social hazards reduction.

GROUP – C

3. Answer any *two* questions : 2 × 2

- (a) Mention the aftermath impacts of cyclone hazard.

(5)

- (b) Define the term social pathology.
 - (c) Differentiate epidemic and pandemic disease.
 - (d) What is drought hazard ?
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