

M.A./M.Sc. 2nd Semester Examination, 2015

**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*

**Write the answers to questions of each Unit  
in separate books**

UNIT – 19

( *Environmental Engineering* )

GROUP – A

1. Answer any *one* question : 8 × 1
- (a) Explain the processes of biological and  
chemical treatment of waste water. 8

( *Turn Over* )

( 2 )

- (b) How is arsenic entered into food chain ?  
Suggest suitable management measures  
with special reference to the deltaic  
region of the world. 3 + 5

GROUP – B

2. Answer any *two* questions : 4 × 2

- (a) How is emission from automobiles checked ?
- (b) Elucidate the principles maintained in settling tank.
- (c) Explain the principle of measuring Co in Infra-Red-Spectrophotometer.
- (d) Bring out the role of urban water bodies as the most vital waste sink.

GROUP – C

3. Answer any *two* questions : 2 × 2

- (a) Mention the chemical composition of CFC-11 and CFC-12.
- (b) What do you mean by off-Stoichiometric burning ?

( 3 )

- (c) How is hydrogen peroxide used for estimating sulphur-di-oxide concentration in air ?
- (d) Name four hydrophytes that absorb heavy metals from polluted water.

UNIT – 20

( *Environmental Hazards and Management* )

GROUP – A

1. Answer any *one* question of the following : 8 × 1

- (a) Discuss the causes, impacts and dimensions of earthquake hazards with reference to preparedness practiced in the similar hazard which took place in 2004 in Indian Ocean region.
- (b) Define vulnerability and explain the method of vulnerability analysis with reference to physical environments of the coastal region.

GROUP – B

2. Answer any *two* questions of the following :  $4 \times 2$
- (a) Identify the differences between hazards and disasters in reference to concepts and paradigmes.
  - (b) Briefly explain the management of biophysical hazard related to epidemic phase.
  - (c) Explain why crime and trafficking are considered as social hazards.
  - (d) Define agricultural hazard and assess the risk perception involved with such hazard.

GROUP – C

3. Answer any *two* questions of the following :  $2 \times 2$
- (a) What is flood hazard ?
  - (b) Mention the impacts of Landslide hazards.
  - (c) Define trauma and aftermath of hazard.
  - (d) Identify some animal induced hazards.