

2 0 1 7

(6th Semester)

GEOLOGY

TWELFTH (A) PAPER

(**Environmental Geology**)

Full Marks : 55

Time : 2½ hours

(PART : B—DESCRIPTIVE)

(*Marks : 35*)

*The figures in the margin indicate full marks
for the questions*

Answer **five** questions, taking **one** from each Unit

UNIT—I

1. Describe biosphere as a system. Add a note on the biotic and abiotic components of biosphere. 3½+3½=7
2. Write a note on the role of paleoclimate in shaping the earth surface. 7

UNIT—II

3. (a) Describe the causes of mass movements. 3½
(b) How are tsunamis formed? Support your answer with a neat sketch. 3½
4. What are cyclones? Explain the types and formation of cyclones. 1+6=7

UNIT—III

5. Describe in detail the classification of clouds. 7
6. Answer any *two* of the following : 3½×2=7
(a) Heat budget
(b) La Niña event
(c) Composition of atmosphere

UNIT—IV

7. Discuss the types of pollution on the basis of their location. 7
8. Write descriptive notes on any *two* of the following : 3½×2=7
(a) Effect of industrial pollution
(b) Control of industrial pollution
(c) Industrial waste management

(3)

UNIT—V

9. Describe how uncontrolled urbanization can lead to major hazards. Cite examples to justify your statement. 7
10. Answer any *two* of the following : $3\frac{1}{2}\times 2=7$
- (a) Landslides due to land degradation
 - (b) Basic components of geoenvironment
 - (c) Causes of land degradation

Subject Code : GEOL/VI/12(a)

Booklet No. **A**

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Date Stamp

To be filled in by the Candidate

DEGREE 6th Semester
(Arts / Science / Commerce /
.....) Exam., **2017**
Subject
Paper

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To be filled in by the Candidate

DEGREE 6th Semester
(Arts / Science / Commerce /
.....) Exam., **2017**

Roll No.

Regn. No.

Subject

Paper

Descriptive Type

Booklet No. B

INSTRUCTIONS TO CANDIDATES

1. The Booklet No. of this script should be quoted in the answer script meant for descriptive type questions and vice versa.
2. This paper should be ANSWERED FIRST and submitted within 45 minutes of the commencement of the Examination.
3. While answering the questions of this booklet, any cutting, erasing, overwriting or furnishing more than one answer is prohibited. Any rough work, if required, should be done only on the main Answer Book. Instructions given in each question should be followed for answering that question only.

Signature of
Scrutiniser(s)

Signature of
Examiner(s)

Signature of
Invigilator(s)

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GEOL/VI/12(a)

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(6th Semester)

GEOLOGY

TWELFTH (A) PAPER

(Environmental Geology)

(PART : A—OBJECTIVE)

(Marks : 20)

The figures in the margin indicate full marks for the questions

SECTION—A

(Marks : 5)

1. Put a Tick (✓) mark against the correct answer in the brackets provided : 1×5=5

(a) The atmosphere layer reflecting radiowaves is called

(i) homosphere ()

(ii) ionosphere ()

(iii) stratosphere ()

(iv) ozonosphere ()

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(2)

(b) Flood hazards in Uttar Pradesh, Bihar and Andhra Pradesh combined together accounted for ____ percent of the total damages done in the country.

(i) 57 ()

(ii) 48 ()

(iii) 80 ()

(iv) 62 ()

(c) The immediate cause of wind is

(i) humidity differences ()

(ii) temperature differences ()

(iii) pressure differences ()

(iv) rotation of the earth ()

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(3)

(d) India gets most of her rain from

(i) tropical cyclone ()

(ii) the summer monsoon ()

(iii) the retreating monsoon ()

(iv) the winter monsoon ()

(e) Leaked crude oil rapidly spreads on water surface as

(i) oil sludge ()

(ii) oil slinger ()

(iii) oil spill ()

(iv) oil slick ()

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(4)

SECTION—B

(Marks : 15)

2. Write short notes on the following :

3×5=15

(a) Basic structure of environment

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(5)

(b) Types of earthquake waves

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(6)

(c) Importance of monsoon

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(7)

(d) Groundwater pollution

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(8)

(e) Major causes of landslides in Mizoram

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