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Total No. of Questions : 05

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Code No. : B-278(A)

Annual Examination - 2017

B.Sc.-III

GEOLOGY

Paper-I

EARTH PROCESSES AND RESOURCES

Max.Marks : 50

Time : 3 Hrs.

Min.Marks : 17

1/2 B Zā/Şy cŞyāēyçŞy ZāĀ Nv ŞyĀkŞy ñysā ZāĀŞy ; Şy ytāĀ Nēn

Note : Attempt one question from each unit. All questions carry equal marks.

Unit-I

ZāĀ-1. EĀkvāū ārvuĀā ūā Nē? EĀkvāū āĀŌq āĀtāŞy Şy ; āvĪŞy qĀĀnānuāĀrmāncĀĀ āvĪŞy sĒĀ āĀŌqāŞy wĀĀ ŞyĀkŞy ñ

What is Hydrothermal solution? Explain the essential conditions for the formation of hydrothermal deposits and describe the cavity filling deposits.

OR

āĀqĀā āvāĀŞy B

(i) qāētētāu ZāŞyt

(r) hĀĀk EqvĀomā ŞyĀĀūĀm ŞyĒĀwāvçŞyĒŞy

Write notes :

(a) Early magmatic concentration process

(b) Factors controlling mineral availability

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Unit-II

Zalā-2. tēlak śy tñwqāzē ; uḌśy āḌāqāḑśyl E³qāā, Zaām ṽwpānmē¹⁄² śyā w¹⁄²ā śylākṽ ṅ

Describe the origin, occurrence and distribution of important ores of manganese.

OR

ā¹Ḥq¹⁄²ā āvāhṽ ḑ

- (j) ; uḌśy āḌāqāḑ śyl ; wyāā Zaśyua
- (r) ; uḌśy āḌāqāḑ śyl śyāuāēm Zaśyua

Write notes :

- (a) Sedimentation process of ore formation
- (b) Metamorphic process of ore formation

Unit-III

Zalā-3. sēm tēmārcśy ; uḌśyāśyl Zaām Dnv, E³qām ṽwpsēm wxētḑāvmē¹⁄² qē āḌāḑ āvāhṽ ṅ

Write an essay on mode of occurrence, origin and distribution of copper ore in India.

OR

ā¹Ḥq¹⁄²ā āvāhṽ ḑ

- (j) māq yñ hālak ṽwpyātē¹ḑēūā tēZauḑ Nāḑwāvchālak
- (r) ²Ḥāy²ḑ tē¹ḑūātāt (rēyāc¹ḑ) āḌāqāḑśyā āvmē¹⁄²

Write notes :

- (a) Refractory minerals and minerals used in cement industries
- (b) Aluminium deposit (Bauxite) of Chhattisgarh

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Unit-IV

Zalā-4. sēm tēZatñ śyāuvā āḌāqāḑśyā sūḌāśy ṽwpsēm śy āvmē¹⁄² rmacṽ ṅ

Describe the geological and geographical distribution of important coal deposits of India.

OR

ā¹Ḥq¹⁄²ā āvāhṽ ḑ

- (j) māḑāmāyāḑ¹⁄² śyl āvāouāl
- (r) hālak āḌāśy quāmē¹⁄²āu Zāśān

Write notes :

- (a) Methods of copper metal concentration
- (b) Environmental implications of ore exploitation

Unit-V

Zalā-5. āvāsā yēj āzātśy, ḑmēāvḑāā ṽwpatāóm ; āuv¹Ḥ śyā yāj ḑā w¹⁄²ā śylākṽ ṅ

Describe the various structural, stratigraphical and mixed oil trap with neat sketches.

OR

ā¹Ḥq¹⁄²ā āvāhṽ ḑ

- (j) sēm wxētḑēḑḑḑāḑ hālakāśyā āvmē¹⁄²
- (r) ; yt śy ḑḑḑḑḑ ḑāḑ

Write notes :

- (a) Distribution of radioactive minerals in India
- (b) Petroleum field of Assam