D 72905

(Pages : 2)

Name..

Reg. No..................................

FIRST SEMESTER M.Sc. DEGREE EXAMINATION, DECEMBER 2014

(CUCSS)

Applied Geology

GEL 1C 02—STRUCTURAL GEOLOGY AND GEOTECTONICS

(2010 Admissions)

Time : Three Hours

Maximum : 36 Weightage

Answer **all** *questions.*

I. Answer *all* the questions in two *or* three sentences each :

   1 Form-line contour map.

   2 Beta diagram.

   3 Spaced foliation.

   4 Equal-area net.

   5 Non-cylindrical fold.

   6 Mylonite.

   7 Feather joints.

   8 Hot spot.

   9 Passive margins.

(9 × 1 = 9 weightage)

II. Answer any *five* questions, each not exceeding *two pages* :

  10 Dip isogons.

  11 Magnetic anomalies.

  12 Stages of rock deformation.

  13 Triple junction.

  14 Transform fault.

  15 Island arcs.

  16 Mechanism for plate motion.

  17 Himalayan orogeny.

(5 × 3 = 15 weightage)

Turn over

III. Write essays on :

18 What are planar structures ? Explain their role in the determination of major structures.

Or

19 Describe fault geometry, explain how they are identified in the field.

(1 × 6 = 6 weightage

20 Describe the geometry of folds. Add a note on its genetic classification after Donath and Parke

Or

21 Describe the general features and classification of geosynclines.

(1 × 6 = 6 weighta