1904N306

Candidate's Seat No:

B.Sc Semester-4 Examination

CC 205

Geology Time: 2-30 Hours] April-2024

[Max. Marks: 70

Instructions: (i) Draw neat diagrams whenever necessary. (ii) Write proper answer number. Describe composition, texture, fertility, profile, erosion and conservation of (14) Q-1. soil. OR Gravity condition of the earth. Q-1. (a) (07)(b) Ocean as a thermostat for the earth's surface heat balance. (07)Explain polymorphism and pseudomorphism. Q-2. (14)OR Axial characters and symmetry of beryl crystal. Q-2. (a) (07)Forms of normal class of orthorhombic system. (b) (07)Write explanatory note on the general principles of geomorphology and Q-3. (14)types of landforms. OR Q-3. Properties on rocks to be used as building stones. (a) (07)Mention the name, type and locations of building stones during your field. **(b)** (07)Discuss conditions of entombment, preservation and modes of fossilization. Q-4. (14)Q-4. Environmental factors and geological distribution of Mollusca. (a) (07)Environmental factors and geological time range of Arthropoda. (b) (07)Q-5. Attempt any seven questions out of twelve. (14)Name the soil of Ahmedabad and provide three names of transported soils. (i) Give the composition and temperature of mantle. (ii) Why outer core is liquid and inner core is solid? (iii) Define fluorescence and phosphorescence. (iv) Give symmetry elements of calcite type. **(v)** Write importance of minerals in present era. (vi) Mention two second order geomorphological features. (vii)

Give names and locality of two building stones of igneous origin.

Give locality of two metamorphic rocks that are used as building stones. Provide two uses of fossil study. (**x**)

(viii)

(ix)

Write environmental factors of brachiopods. (xi)

(xii) Give geological distribution of echinoidea.