

N-55036 Seat No. _____
M. Sc. (Part-I) Examination
April / May – 2003
Geology

Time : Hours]

[Total Marks :

Instructions : (i) Draw **neat** diagrams wherever necessary.
(ii) Your answer should carry the same number as per question paper.

1. Discuss the Gondwana Supergroup with reference to classification, climatic changes, 20
palaeogeography, life and important rock types.

OR

1. Write notes on :- (1) Laterites, (2) Tertiaries of south Gujarat, (3) Bagh beds. 20
2. Write descriptive notes: (1) Geological occurrence and significance of trace fossils in 20
stratigraphy, structural geology and tectonics (2) Decanting method for microfossil
separation and concentration (3) General history and application of *foraminifera*.

OR

2. Write detailed notes: (1) Position, fossilization and preservation of trace fossils 20
(2) Tetrabromoethane method for microfossil separation (3) Order *Archaeocopida* and
order *Leperditicopida*.
3. With reference to standard stratigraphy, classify Cenozoic era and justify the 20
classification. Give a brief description of the palaeogeography and life forms of
the era.

OR

3. With reference to Standard stratigraphy review critically :- (1) Palaeogeography 20
and life forms of the Mesozoic era, (2) Siluro-Devonian orogeny, phases and
effects, (3) Laws of stratigraphy and their significance.
4. With reference to Indian stratigraphy, give a brief description and comment on the 20
significance of each : (1) Geotectonics of the Siwalik period, (2) Flysch deposits,
(3) Blaini conglomerate, (4) Phases of upheaval of Himalayas.

OR

4. Write explanatory notes with reference to Indian stratigraphy :- (1) Krol series, Kioto 20
limestone and Karewa formation, (2) Indo – Gangetic depression.
5. Write an account of the following :- (1) Australopithecus, (2) Neanderthal man, 20
(3) Horses and elephants.

OR

5. Describe :- (1) Palaeogeography of fauna and flora, (2) Loxodonta and Elephas, 20
(3) *Homo sapiens* – *sapiens*.