## 2014 de rewertA de

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Paper: 5.2 Make in the state of the state of

## (Indian Stratigraphy)

Full Marks: 60

Time: 3 hours

The figures in the margin indicate full marks for the questions

- 1. (a) Choose the correct answer from the following: 1×3=3
  - (i) Gypsum is found in the 'saline series'.
  - W (1) True Marroll and Ton V
    - (2) False Thomas balled
    - (ii) Haimanta group is related to
      - (1) Vindhyan supergroup
      - (2) Palaeozoic rocks of Spiti
  - (3) Cretaceous rocks of South India
    - (4) Aravalli supergroup
  - (iii) Nallamalai group is dominantly composed of quartzite, shale and limestone.
    - (1) True (ค.ศะเภาหนึ่งของ ค.ศ.
    - (2) False

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(b) Answer the following:

 $1 \times 4 = 4$ 

- (i) Name a formation of the Gondwana Sequence where Noeggerathiopsis fossil is found.
- (ii) Name the formations of the Dupitila group.
- (iii) What is Indo-Brahm' river?
- (iv) What is Neobolus Beds?
- 2. Give brief answers to the following:  $2\times4=8$ 
  - (a) What is 'greenstone belt'?
  - (b) What is 'charnockite? Why is it also called 'charnockite series?
  - (c) Where is the salt range located? Why is it named 'salt range'?
  - (d) What are 'Barren Measures'? Why is it called 'Barren'?
  - 3. Answer the following (any three): 5×3=15
    - (a) Write briefly on the igneous activities in the Dharwar Province.
    - (b) Discuss the tectonic settings of the Shillong plateau.
    - (c) Give a stratigraphic account of the Sylhet formation.

- (d) Write briefly on the lithological characteristics and tectonic settings of the older metamorphic group.
  - (e) Write on the age of the Deccan traps on the basis of the palaeontology of the infra-trappean and inter-trappean beds.
- 4. (a) Give a stratigraphic account of the Eastern Ghats Province on the basis of its broad lithological units and igneous activities.

  5+5=10

Or

Discuss the Precambrian stratigraphy of the Aravalli-Bundelkhand Province with reference to its tectonic evolution and lithology. 5+5=10

(b) Give the stratigraphic succession of the Siwaliks. Discuss the palaeogeography of the Siwaliks with supporting evidences from lithology and palaeontology.

4+6=10

Or

Write on the stratigraphy of the Cretaceous rocks of North-East India with reference to its palaeogeography, palaeontology and lithology. 3+4+3=10

(c) Give the Triassic stratigraphic succession of Spiti. Discuss the palaeontological and lithological records of the succession. 4+3+3=10

Write on the continuor Sevent traps on

Give the classification of the Gondwana rocks of India. Draw a map of India and locate the Gondwana basins. Write briefly on the marine intercalated beds of Manendragarh and Umaria. 4+3+3=10

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