

Q.P. Code :19265

[Time: 2½ Hours]

[Marks:75]

Please check whether you have got the right question paper.

N.B: 1. Draw neat labeled diagrams where necessary.

1. a) Describe in detail the crustal structure of Earth. **15**
- OR**
- b) Describe tectonic divisions of India. Give examples of Cratons from India. **08**
- c) What are the features of Peninsular and Extra-Peninsular India? Explain in brief. **07**
2. a) Give detailed sequences of Bababudan and Chitradurga Groups. Add a note on Economic minerals associated with them. **15**
- OR**
- b) Describe various phases of granite intrusion and volcanism in Singhbhum Craton with significance of each. **08**
- c) Write a note on structure, stratigraphy and environment of Aravalli Craton. **07**
3. a) Describe in detail the environment of deposition and sequence of Kaladgi Supergroup. **15**
- OR**
- b) Describe lithology, sequence and depositional environment of Cuddapah Supergroup. **08**
- c) Explain the environment of deposition and lithology of Kurnool Group. Add a note on its economic deposits. **07**
4. a) Describe in brief lithology and depositional environment of Precambrian of Western sector of Himalaya. **15**
- OR**
- b) i) Write a note on lithology of Proterozoic Carbonate successions of Central Himalaya. **04**
ii) Give stratigraphic sequence of Vaikrita Group. **04**
- c) Describe in detail the environmental transitions from deposition of Jutogh and Daling Group **07**
5. Write notes on **(Any three)** **15**
- i) Cratons, Shield and Platform
- ii) Lithology of Older Metamorphic Group of Singhbhum Craton
- iii) Stratigraphic sequence of Pakhal Basin
- iv) Lithology and structure of Kolhan Group
- v) Salkhala Group
- vi) Lithology of Eastern Ghat Mobile belt
