15P440

(Pages: 2)

Name ....

Reg. No ....

FOURTH SEMESTER M.Sc. DEGREE EXAMINATION, MARCH 2017
(CUCSS - PG)

(Applied Geology)

CC15P GEL4 C13 – GEOCHEMISTRY & SEDIMENTOLOGY

(2015 Admission)

Time: Three Hours

Maximum: 36 Weightage

I. Short Answer Type Questions. Answer *all* questions.

1. Categories of meteorites.

2. Siderophile elements.

3. Fugacity.

4. Eh-pH diagrams.

5. Decay schemes.

6. Fission track dating.

7. Atomic Absorption Spectrometer.

8. Diagenesis.

9. Sediment provenance.

10. Textural maturity.

11. Clastic textures.

12. Carbonaceous deposits.

13. Grain mounts.

14. Aulacogens.

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(14 x 1= 14 weightage)

II. Short Essay Type questions. Answer any *seven* questions.

15. Geochemical constitution of earth's crust.

16. Geochemical cycle.

17. Application of Gibb's phase rule to mineralogical systems.

18. Stable isotopes.

19. Rb-Sr method of dating.

20. Grade scale and sediment classes.

21. Primary sedimentary structures.

22. Sedimentary depositional environments.

23. Heavy mineral separation methods.

24. Sedimentary basins of India.

<div align="right">(7 x 2 = 14 weightage)</div>

III. Write essays on *two* questions.

25. Give an account of the geochemical classification and distribution of elements.

<div align="center">*Or*</div>

26. Describe the principle and procedure of ICP-AES analytical technique in geochemical studies.

27. Describe grain size analysis in sedimentological studies highlighting on the graphic representation of data and statistical parameters.

<div align="center">*Or*</div>

28. Discuss the classification of sedimentary rocks. Add a note on siliceous deposits.

<div align="right">(2 x 4 = 8 weightage)</div>

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