Reg. No

FOURTH SEMESTER M.Sc. DEGREE EXAMINATION, MARCH 2017

(CUCSS - PG)

(Applied Geology) als tramibes but also also

CC15P GEL4 C13 - GEOCHEMISTRY & SEDIMENTOLOGY

(2015 Admission)

Time: Three Hours

Maximum: 36 Weightage

I. Short Answer Type Questions. Answer all questions. but To aniand quantomibed.

- 1. Categories of meteorites.
- 2. Siderophile elements.
- 3. Fugacity, 30 noisudistaid and account of the geochemical classification and distribution and distribution
- 4. Eh-pH diagrams.
- 5. Decay schemes.
- 6. Fission track dating.
- 7. Atomic Absorption Spectrometer.
- 27.Describe grain size analysis in sedimentological studies highlight sizenegaid. 8 h
- 9. Sediment provenance.
- 10. Textural maturity.
- 11. Clastic textures.
- 12. Carbonaceous deposits.
- 13. Grain mounts.
- 14. Aulacogens.

 $(14 \times 1 = 14 \text{ weightage})$

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. (7 x 2 = 14 weightage) III. Write essays on two questions. 25. Give an account of the geochemical classification and distribution of elements. Or 26. Describe the principle and procedure of ICP-AES analytical technique in geochemical studies. Or 27. Describe grain size analysis in sedimentological studies highlighting on the graphic representation of data and statistical parameters. Or 28. Discuss the classification of sedimentary rocks. Add a note on siliceous deposits. (2 x 4 = 8 weightage)		
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