STATEMENT OF THE PROPERTY OF T

ABR-1679

Seat No. ___

M, Sc, (Sem. 1) Examination November / December - 2016 CHN-404 (A) - Group Theory, Spectrocopy & Diffraction Methods

3 Hours Time

[Total Marks: 70

Answer any five :

- Discuss the Hermition and Orthogonal Matrix.
- Find out $\sqrt{3N}$ for following: POCH₃₀ BF₃₀ H₂O₁ H₂O₂ (Trance)
- Explain the Great Orthogonality theory.
- Discuss the factors affecting intensities of spectral lines.
- Prove that C3V point group is non abelian group.
- Clive the various types of plan.
- Find out Vibration FOR NH3.

Answer any five:

- Explain the use of CIS in Mossbaauer spectroscopy.
- Describe the XRD by single crystal.
- Discuss the Mossbaauer spectrum of Fe complexes.
- Explain the relation of Direct and reciprocal lattices.
- Write a note on Ramchandran diagram.
- Explain the De-bye Schetter method.
- Explain Bragg's equation.

[Contd...

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Answer any five in brief: 3

- What is recoil energy?
- What is subgroup and class?
- Use of Mossbauer spectra.
- Give the poin group of PtCl₄, C₃H₄ and H₂O₂.
- What is Matrix?
- What is Morse function?
- Explain A_2g , B_2u and A_{2g} .

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