

09 • 04 • 2020

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Tuesday	31	3	10	17	24	Tuesday
Wednesday	4	11	18	25	Wednesday	
Thursday	5	12	19	26	Thursday	
Friday	6	13	20	27	Friday	
Saturday	7	14	21	28	Saturday	
Sunday	8	15	22	29	Sunday	

Topic for Project Report

(For M.Sc. II Sem.)

DR. S.K. Sharma

HOD Physics

- 09 ① Infrared Spectrophotometer
- 10 ② Photoelectron Spectrometer
- ③ Simple Raman Spectrometer
- 11 ④ NMR Spectrometer
- ⑤ ESR Spectrometer
- 12 ⑥ Chemical Shift
- ⑦ Development of Atomic Physic With Quantum numbers.
- 01 ⑧ Fine structure of hydrogen atom.
- ⑨ Spectra of Alkali elements.
- 02 ⑩ Singlet and triplet state of helium
- ⑪ Central field approximation
- 03 ⑫ L-S coupling for many electron atoms
- ⑬ J-J coupling. for many electron atoms
- 04 ⑭ Electric dipole and quadrupole.
- ⑮ Frank-Condon principle.
- 05 ⑯ Born-oppenheimer approximation.
- ⑰ Heitler-London theory of H_2
- 06 ⑱ LACO Treatment of H_2
- ⑲ Pure Rotational Spectra
- 07 ⑳ Vibrational-Rotational Spectra.

(Minimum 10 pages) *