



Department of Chemistry

ASSIGNMENT-2

Course- B.Sc(PCM)/(ZBC)/(HONS.)

Sub code-CHE-311

Sub-Inorganic Chemistry

Year- IIIrd year/Vthsem

Last date of Submission-23/10/2017

Instruction

- 1)Write the responses to the assignment in your own handwriting.
- 2)Submit the responses to your HOD within the due date.
- 3)Write your name, program and Enrollment nu clearly at the top of the page.

Q1.

- a) Explain thermodynamic and kinetic stability.
- b)What are factors effecting stability of complex.

Q2.

- a)Explain paramagnetism and diamagnetism of transition metal .
- b) Explain trans effect with proper examples



Department of Chemistry

ASSIGNMENT-2

Course- B.Sc.(PCM)/(ZBC)/(HONS)

Sub code-CHE-312

Sub-Physical Chemistry

Year- IIIrd year/Vth sem

Last date of Submission-11/09/2017

Instruction

- 1) Write the responses to the assignment in your own handwriting.
- 2) Submit the responses to your HOD within the due date.
- 3) Write your name, program and Enrollment nu clearly at the top of the page.

Q1.

- a) What is MOT? Explain with examples.
- b) Explain hybridization with proper example.

Q2.

- a) Explain emission and absorption spectra.
- b) Explain the basic concept of spectroscopy?



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Q1.

- a) What is components of nucleic acids. Explain Nucleosides and nucleotides.
- b) Give the synthesis and reactions of adenine.

Q2.

- a) Give the properties and configuration of Uracil.
- b) Give the properties and configuration of Thymine.



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Course- B.Sc. (Hons.)

CODE- BSCCH-312

Sub- Spectroscopy Chemistry

Year- IIIrd year/Vthsem

Last date of Submission-23/10/2017

Instruction

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Q1.

- a) What is vibrational mode in infra-red spectroscopy.
- b) Explain the discuss the harmonic oscillator in approximation methods.

Q2.

- c) What is principal of Nuclear Magnetic Resonance spectroscopy in detail.
- d) What is chemical shift. Give the suitable diagram