Faculty of Science
Chemistry Department

Final Essay for Quantum Chemistry (CH215)

Under graduated Students – Second Year (Chemistry Section)

Academic Year: 2019/2020 - Semester: 2nd Semester

Write an essay on ONLY ONE of the following topics:

① **Black-body Radiation: contradiction between classical and quantum theorem.**

② **Photoelectric Effect and its role in shaping quantization expression.**

③ **Evolution of atomic models and Bohr-hydrogen model.**

④ **Wave particle duality.**

⑤ **Uncertainty principle.**

⑥ **Classical wave equation.**

⑦ **Wavefunction and its interpretation in view of quantum theory.**

⑧ **Operators in Quantum mechanics.**

⑨ **Quantum numbers.**

⑩ **Particle in one-dimensional box and its application for chemical systems.**

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*Best wishes >>>>