



Final Examination : Semester 2, 2021

Ongkharak Demonstration School

Mathayom 6/5

Monday 10th and Wednesday 12nd January, 2022

1. สาขาวิจัยและพัฒนาการสอนคณิตศาสตร์ ★ Mathematics Exam Topics Unit 4 (continued): Random variables and probability distribution Binomial distribution Binomial Probability Histogram of Binomial Distribution ★ Additional Mathematics Exam Topics Unit II. Integral Calculus Definite and Indefinite Integrals - Integration formulas - Integration by Substitution - Integration by Parts - Area Functions	2. สาขาวิจัยและพัฒนาการสอนวิทยาศาสตร์และเทคโนโลยี (ต่อ) ★ Physics Exam Topics Unit 7: Electromagnetic Waves - Origin of electromagnetic wave - Spectrum of electromagnetic wave - Radio wave - Microwave - Infrared - Light - Ultraviolet - X-ray - Gamma radiation - Polarization of EM wave - Application of EM wave - X-ray machine - X-ray scanner - Remote controller - Global Positioning System - Magnetic Resonance Imaging Unit 8: Atomic Physics - Hypothesis of Planck and Bohr's Theories of Atom - Black-body radiation - Bohr's theories of Atom - Photoelectric effect - Quantum of light and Photon - Work function and maximal kinetic energy of an electron
2. สาขาวิจัยและพัฒนาการสอนวิทยาศาสตร์และเทคโนโลยี ★ Biology Exam Topics 1. Changes of population - Link: https://prezi.com/mnd9mrfd5sn/population-change-over-time/ 2. Ecosystem and balance - Link: https://www.slideshare.net/AnikaTahsin16/ecological-balance-176946326 3. Natural resources - Link: https://www.youtube.com/watch?v=ATwkcN48_r8 4. Ecological succession 5. Changes to physical components - Link: https://prezi.com/9l8vvul3k4j/natural-physical-changes-to-the-earth/	