



Nepal Physical Society

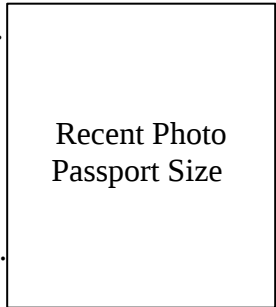
12th Nepal Physics Olympiad (NePhO)- 2018



REGISTRATION FORM

Pre-selection Test for APHO/IPHO-2018

Regd. No.....Date.....
 Name.....
 Date of Birth.....E-mail.....
 Contact Address.....
 Tel/Mobile No.....Nationality.....
 Name & Add. of your current institution.....



Examination Center:(Please \checkmark tick mark your center.)
 Kathmandu/Biratnagar/Birgunj/Janakpur/Bharatpur/Pokhara/Butwal/Nepalgunj/Mahendranagar/Dhangadi.....

Signature of the candidate.....NePhO representative.....

X.....X.....X



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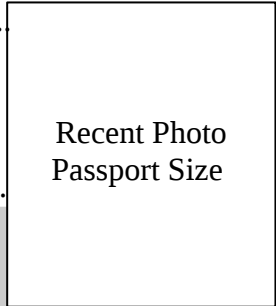
12th Nepal Physics Olympiad (NePhO)- 2018



ADMISSION CARD

Pre-selection Test for APHO/IPHO-2018

Regd. No.....Date.....
 Name.....
 Contact Address.....
 Tel/Mobile No.....Nationality.....



Examination Center:(Please \checkmark tick mark your center.)
 Kathmandu/Biratnagar/Birgunj/Janakpur/Bharatpur/Pokhara/Butwal/Nepalgunj/Mahendranagar/Dhangadi

Date: 5th Falgun 2074 (17th February-2018), Saturday

Time: 11:00 AM

Kathmandu Center: Tri-Chandra Multiple Campus, Ghantaghar, Kathmandu

Signature of the NePhO representative.....Ph.....

Syllabus: 1. Mechanics: Kinematics; Newton's laws of motion and applications; Work, energy and power; Circular motion; gravitation; Simple harmonic motion; Rotational motion; Hydrostatics. **2. Heat:** Calorimetry; Expansion of materials; Kinetic theory of gases and gas laws; Laws of thermodynamics. **3. Optics:** Reflection, refraction and dispersion. **4. Electrostatics:** Electric field; Electric potential; Gauss's law; capacitors and dielectrics. **5. Current electricity:** Ohmic and non-ohmic conductors; DC circuits; Kirchoff's laws; Thermoelectric and chemical effects of currents.

Note: Students are required to know vector addition and subtraction, scalar product and simple differentiation and integration.