



Nepal Physical Society

13th Nepal Physics Olympiad (NePhO)- 2019



REGISTRATION FORM

Pre-selection Test for APhO/IPhO-2019

.....Regd.No.....Date

Name.....

Date of Birth.....E-mail.....

Contact Address.....

Tel/Mobile No..... Nationality.....

Name & Add. of your current institution.....

Recent Photo
Passport Size

Examination Center:(Please 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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ADMISSION CARD

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.....Regd.No.....Date

Name.....

Contact Address.....

Tel/Mobile No..... Nationality.....

Examination Center:(Please tick mark your center.)

Kathmandu/Biratnagar/Birgunj/Janakpur/Bharatpur/Pokhara/Butwal/Nepalgunj/Mahendranagar/Dhangadi

Recent Photo
Passport Size

Date: 26th Magh 2075 (9th February-2019), 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.