

Roll No. \_\_\_\_\_

866140

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**PHY-I-002**  
**B.Sc. I Semester (NEP) Degree Examination**  
**PHYSICS(OE)**  
**Sports Science**

**Time : 2 Hours**

**Maximum Marks : 60**

**Instructions to Candidates:**

**Answer All the Sections.**

**SECTION - A**

**Answer any FIVE of the following questions.**

**(5×2=10)**

1. a) Expand CGS and MKS systems.
- b) What is Momentum? Write its SI Unit.
- c) Mention the types of Collision.
- d) What is Rock Climbing?
- e) Define buoyancy.
- f) State law of conservation of energy.
- g) What are Vitamin and fats?

**SECTION - B**

**Answer any FOUR of the following questions.**

**(4×5=20)**

2. Write a note on error in measurement.
3. State and Explain Newton's law's of motion.
4. Discuss Physics behind shooting and Discuss throw.

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**(1)**

**[Contd....**

5. State and explain Newton's law of Gravitation.
6. Mention the problems arises due to the deficiency of Proteins.
7. Write the benefits of Walking and Jogging.

### SECTION - C

Answer any THREE of the following .

(3×10=30)

8. a) Explain briefly Significant figures. (5)
- b) Mention the applications of Newton's law of motion. (5)
9. a) What is force. Derive  $F = ma$  (5)
- b) Write a note on Javellian throw. (5)
10. a) State and Explain law of Conservation of linear momentum. (5)
- b) Mention different forms of energy and explain briefly . (5)
11. a) Write a note on blood pressure. (5)
- b) Mention the different types of Vitamins and explain briefly. (5)
12. a) State and explain Archimede's Principle. (5)
- b) Discuss Physics behind Cycling. (5)
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