

PHYSICS  
 Paper : I (Essay Type)  
 Time Allowed : 1.45 hours  
 Maximum Marks : 48

( حصہ اول - I PART )

- 2- کوئی سے پانچ (5) سوالات کے مختصر جوابات لکھئے :
- Differentiate between geophysics and plasma physics.
  - Define acceleration and write down its SI unit.
  - State Newton's second law of motion.
  - Write the number of significance figures in each case :  
 (i) 275.00 (ii) 0.027
  - Define base units. Write down the base units of temperature and electric current.
  - Differentiate between circular motion and rotatory motion.
  - SI unit of force is newton. Define one newton force.
  - Differentiate between rest and motion.

- 3- کوئی سے پانچ (5) سوالات کے مختصر جوابات لکھئے :
- Describe like and unlike parallel forces.
  - What is meant by rigid body and line of action of force?
  - Why are vehicles made heavy at the bottom?
  - Why we can not feel gravitational force around us?
  - What is meant by gravitational field strength?
  - What is the difference between artificial and natural satellite?
  - Define work. On what factors work depends?
  - Describe Einstein's mass energy equation.

- 4- کوئی سے پانچ (5) سوالات کے مختصر جوابات لکھئے :
- Define principle of floatation.
  - Why is water not suitable to be used in a barometer?
  - Why does the atmospheric pressure vary with height?
  - Write down applications of thermal expansion.
  - Differentiate between temperature and heat.
  - Why does thermal energy flow from hot body to cold body?
  - Why conduction of heat does not take place in gases?
  - What is green house effect?

( حصہ دوم - II PART )

Note : Attempt any TWO questions.

- 5- (الف) نٹن کا موشن کا پہلا قانون بیان کیجئے اور دو مثالوں کی مدد سے وضاحت کیجئے۔  
 (ب) ایک کار  $30 \text{ ms}^{-1}$  کی ولاسٹی سے حرکت کر رہی ہے۔ اس کی ولاسٹی 5 s میں کم ہو کر  $15 \text{ ms}^{-1}$  ہو جاتی ہے؟  
 (ج) کار کا ریٹارڈیشن معلوم کیجئے۔  
 (د) Find the retardation produced when a car moving at a velocity of  $30 \text{ ms}^{-1}$  slows down uniformly to  $15 \text{ ms}^{-1}$  in 5 s.
- 6- (الف) مصنوعی سیلابائٹس کی موشن کی وضاحت کیجئے اور زمین کے قریب ان کی سپیڈ کا فارمولا اخذ کیجئے۔  
 (ب) Find the magnitude and direction of force, if its x-component is 12 N and y-component is 5 N.
- 7- (الف) پاسکال کا قانون بیان کیجئے اور پائیز برک پر اس کی وضاحت کیجئے۔  
 (ب) ایک پینٹل کی مٹیلاخ جو  $0^\circ\text{C}$  ٹیمپریچر پر ایک میٹر لمبی ہے اس کی لمبائی  $30^\circ\text{C}$  پر معلوم کیجئے۔ (پینٹل کے طول کی حرارتی پھیلاؤ کے کو اعلیٰ حد تک قیمت  $1.9 \times 10^{-5} \text{ K}^{-1}$  ہے)  
 (ب) A brass rod is 1 m long at  $0^\circ\text{C}$ . Find its length at  $30^\circ\text{C}$ . (Coefficient of linear expansion of brass =  $1.9 \times 10^{-5} \text{ K}^{-1}$ )

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**Emilie Sanchez**



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