

#### Question Paper Code: 20282



#### B.E./B.Tech, DEGREE EXAMINATION, NOVEMBER/DECEMBER 2018.

#### Seventh Semester

#### Civil Engineering

#### CE 6701 — STRUCTURAL DYNAMICS AND EARTH QUAKE ENGINEERING

#### (Regulations 2013)

## (Common to PTCE 6701 — Structural Dynamics and Earth Quake Engineering for B.E (Part-Time) — Fifth Semester — Civil Engineering - Regulations 2014)

Time: Three hours.

Maximum: 100 marks

#### Answer for ALL questions.

#### PART A — $(10 \times 2 = 20 \text{ marks})$

#### 1. Explain De Alembert's principle

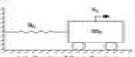
According to Newton's law F = ma

 D'Alembert's principle which state that a system may be in dynamic equilibrium by adding to the external forces, an imaginary force, which is commonly known as the inertia force.

$$F - ma = 0$$

F -- Real Force

ma - +Imaginary Force



(c) Dynama appliferan

#### Brief about the SDOF system and free body diagram.

- At any instant of time, the motion of this system can be denoted by single coordinate (x in this case).
- It is represented by a rigid mass, resting on a spring of stiffness 'k' and coupled through a viscous dashpot (representing damping) having constant 'c'. Here, the mass 'm' represents the inertial effects of damping (or energy dissipation) in the system.
- Using the dynamic equilibrium relation with the inertial force included, according to D'Alembert's principle, it can be written as

 $F_1$  +  $F_D$  +  $F_S$  - P(t)

(Inertial Force) (Damping Force) (Elastic Force) (Application Force)

This gives

 $\sim m\ddot{x} + c\dot{x} + kx = P(t)$  x,  $\dot{x}$ ,  $\ddot{x}$  respectively denote the displacement, velocity and acceleration of the system. P(t) is the time dependent force acting on the mass.

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