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2nd Semester Regular Examination 2018-19
Physics

BRANCH: BT, CIVIL, FAT, IT, I&E

Max Marks: 70

Time: 3 Hours

Answer Part-A which is compulsory and any five from Part-B.
The figures in the right-hand margin indicate marks.

Part - A (Answer all the questions)

(2 x 10)

Q1

Answer the following questions:

- What are generalised co-ordinates? What is the advantage of using them?
- What is the linear frequency of a SHO described by the equation $y = \sin(12.56t)$.
- How can one distinguish between diffraction pattern and interference pattern?
- Differentiate between Fresnel type and Fraunhofer type of diffraction.
- What are Brillouin zones?
- What is the population inversion?
- Evaluate $\text{div } A$, where $A = ix + jy + kz$ is a vector.
- Write in SI unit system, the integral and differential forms of Gauss' law in electrostatics in a dielectric medium.
- What is photoelectric work function?
- Write down the Orthonormal condition for wave function.

Part - B (Answer any five questions)

- State the principle of virtual work. Give one example. How is D'Alembert's principle related to this principle? (5)
- Derive the Lagrange's equation for 3D dimensional simple harmonic's oscillator of mass 'm' and force constant 'k'. (5)
- Set up the differential equation for a damped harmonic oscillator subjected to damping force proportional to velocity. Discuss the solution for under damping condition. (5)
 - Set up the differential equations of motion for a coupled oscillator having two equal masses connected by a spring and decouple the equations using normal coordinates. (5)

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