

Reg No.: _____

Name: _____

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY
FIRST SEMESTER B.TECH DEGREE EXAMINATION(2019 SCHEME), DECEMBER 2019

Course Code: PHT100

Course Name: ENGINEERING PHYSICS A
(2019-Scheme)

Max. Marks: 100

Duration: 3 Hours

PART A

Answer all questions, each carries 3 marks.

- | | | |
|----|---|-----|
| 1 | List any six points to compare electrical oscillator with a mechanical oscillator. | (3) |
| 2 | Distinguish between transverse and longitudinal waves. Give one example for each. | (3) |
| 3 | When a medium of $\mu \neq 1$ is introduced in the Newton's ring set up, what happens to the diameter of interference pattern? Explain it with the help of relevant equation. | (3) |
| 4 | Give 3 differences between interference and diffraction. | (3) |
| 5 | State Heisenberg's Uncertainty principle and write the three uncertainty relations. | (3) |
| 6 | Explain the optical properties of nanomaterials. | (3) |
| 7 | Distinguish between magnetic induction and magnetising field. | (3) |
| 8 | Derive the equation of continuity for time varying fields. | (3) |
| 9 | Show that superconductors are perfect diamagnets. | (3) |
| 10 | Distinguish between step index and graded index fibres. | (3) |

PART B

Answer one full question from each module, each question carries 14 marks

Module-I

- | | | |
|----|--|------|
| 11 | a) Set up the differential equation for a forced harmonic oscillator and solve it. | (10) |
| | b) A transverse wave on a stretched string is described by $y(x,t)=2\sin(20t+0.021x+\pi/6)$ where x and y are in cm and t is in second. Obtain (1)Amplitude (2)Initial phase (3)speed (4)frequency | (4) |
| 12 | a) Derive an expression for the fundamental frequency of a transverse wave in a stretched string. | (10) |
| | b) A sitar wire is under tension of 40 N and length of the bridge is 80cm. A 10m | (4) |

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Wenbin Ji



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