1st Internal (SSIT POLYTECHNIC) 2023-2024(winter)

SUBJECT- ENGG PHYSICS

BRANCH-CIVIL ENGG, EE ENGG & EE(I&C) ENGG(1st SEM)

TIME:1 HOURS MAXIMUM MARKS:20

1. Answer all question:

2×5=10

- (a) Name two physical quantities whose dimensions are ML⁻¹T⁻².
- (b) Name two dimension less physical quantities.
- (c) Obtain the dimensions of (i) pressure and (ii) kinetic energy.
- (d) What is the mean by a unit?
- (e) What is the dimensional formula of (i) force and (ii) work?

2. Answer all question

5×2=10

- (A) What are the fundamental base unit in the SI System?
- (B) Define or verify the correctness of the equations $v^2-u^2=2as$ and $s=ut+1/2at^2$ using dimensional analysis.
