



B. Sc. 1st Semester Examination, 2023

Sub. : Physics (SEC)

Paper : Physics Workshop Skills

Time : $1\frac{1}{2}$ hours

Full Marks : 30

1. Answer all the following : 1 x 5 = 5
 - (a) 10^{-15} is known as
 - (b) What is the S.I unit of "Amount of Substance".
 - (c) Bronze is alloy of which materials.
 - (d) What is the full form of CRO.
 - (e) Zener diode operates in which biasing ?
2. Answer *any five* of the following : 2 x 5 = 10
 - (a) Define pitch and leadt count of screw gauge.
 - (b) Define the term vernier constant.
 - (c) What do you mean by precession and accuracy ?
 - (d) What is the basic function of Lathe machine.
 - (e) What do you mean by alloys.
 - (f) Define the process of welding.
 - (g) Write the applications of a bench vice.
 - (h) Define regulated power supply.
 - (i) Write briefly about use of a transformer.
 - (j) Define prime movers.
3. Answer *any three* of the following : 3 x 5 = 15
 - (a) Determine the process of calculating vernier constant of a vernier scale.
 - (b) Define the working of vernier slide caliper.

(2)

- (c) Write down the working procedure of a screw gauge.
- (d) Write short note on Lathe machine.
- (e) Explain the proccess of filing a workpiece.
- (f) Describe the working of an electron gun in a CRO.