

BSC B.Ed. Sem II Examination, 2020
Subject: Physics
Course : SEC 1

Full Marks: 30

Time: 2 Hours

Answer any SIX (6) questions from the following:

5X6=30

- 1) Explain 'Maximum Power Transfer Theorem'.
- 2) A galvanometer has a coil resistance of 200Ω and a linear pointer scale marked with 25 divisions. If the meter has a sensitivity of 4mA per division, calculate the shunt resistance required to measure a maximum current of 20 amperes.
- 3) Write down the specifications of a multimeter.
- 4) Explain the advantages of an electronic multimeter over conventional multimeter.
- 5) Sketch the block diagram of a Cathode Ray Oscilloscope and discuss, in brief, the focusing of it.
- 6) Discuss the usage of a Cathode Ray Oscilloscope.
- 7) Write down the working principles of a digital voltmeter.
- 8) Explain the characteristics of a digital meter.