

B.Sc. (NEP) Sem.-3 Examination

MDC-234

Electronics

Time : 1-00 Hour]

November-2025

[Max. Marks : 25

- Instructions: (1) All questions carry equal marks.
 (2) Symbols used here have their usual meanings.
 (3) Figures to the right indicate marks.

- 1 (A) Write Brief History of CSIR and a Proud Record in detail 05
 (B) Write in detail about R&D For Societal Benefits 05
 OR
 (A) Discuss in detail about Scientific Experiment. 05
 (B) Discuss in detail about Achievements And Programmes: Defence 05
- 2 (A) Draw the pin diagram of IC 555 and explain Monostable multivibrator in detail 05
 (B) Explain with figure gated flip-flop in detail. 05
 OR
 (A) With figure explain Astable operation in detail. 05
 (B) With the help of Truth Table and wave form explain Edge Triggered D flip-flop. 05
- 3 Attempt any Five out of Six. 05
 (1) The Defence Research & Development Organization (DRDO) was set up in _____.
 (2) The Council of Scientific & Industrial Research (CSIR) was founded on 26 September _____.
 (3) In _____, Bose married Abala Das, daughter of a leading advocate of the Calcutta High Court and a political leader
 (4) Pin number 3 of the 555 timer is the _____ pin.
 (5) The threshold voltage for the 555 timer is typically _____ of the supply voltage.
 (6) In an RS flip-flop, the condition when both $R = 1$ and $S = 1$ is considered _____.

