

B.E. (Chemical) – 3rd Semester

(Mid Term–II, Jan 2022)

Time: 1 hours

Max. Marks = 30

Note: All questions are compulsory

Q1.

(a) How fuel cell anode electrode and cathode electrode works in case of quantum mechanics? Explain with example (5)

(b) What is the relationship between Butler-Volmer and Nernst Equation? (5)

Q.2

(a) How electrochemical reaction derives diffusion in mass transport process. (5)

(b) Explain convective transport in fuel cell flow structures? Explain in brief (5)

Q.3

Explain in-situ and ex-situ characterization methods for fuel cells? (10)