



F.Y.B.S.C.I.T (2ND Semester)
A.Y.:2025-26
Subject: 202-Mathematics-2

HOME ASSIGNMENT

Question

1. Explain: Hamiltonian graph
2. Give an example of graph that has
 - a) Euler circuit but not Hamiltonian circuit
 - b) Hamiltonian circuit not Euler circuit
3. A graph G is disconnected if and only if its vertex set V can be partitioned into two nonempty, disjoint subsets V_1 and V_2 such that there exists no edge in G whose one end vertex is in subset V_1 and the other in subset V_2 .

INSTRUCTIONS:

- Assignment must be self-handwritten with blue ink ball point pen only.
- You can write assignment in assignment book or full-scape note book.
- Students have to submit assignment online using "Udhna College App".
- Assignment submission date will be declared later on.