Assignment-4 (Solutions)

- A1) (a) It is both sulvian of Hamiltonian graph.

 Sulvian trail : de abcdace 6 d

 Hamiltonian cycle: eabcde
 - Det is mette hamiltonian but not sulvian.

Hamiltoman cycle: abhefqcba

De It is hamiltonian but not eulevian transitonian cycle; odcbe adceba

A Second to Second

Assignment-5 (solutions)

By colowing the given graph in 2 colowis, une can make it a bipartite graph.

Since it is a bépartite graph eustrodd no.

is by using theorem of a bipartite graph with odd no of vertices is not habiltonian),

net hamiltoman.

A-2) It is a hamiltonian graph as me can find a hamiltonian cycle: acdba

It is not a seni-hamiltoman graph because me can find a hamiltoman path: acdb

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Assignment - 6 (Solutions) A=1{as Vertices} = $\{a,b,c,d^2\}$ Arce = $\{b,a,cb,dc,da,db,bd^2\}$ (b) Vertices = $\{0,1,2,3,4\}$ Arce = $\{10,12,32,43,40\}$ Both are simple digrephs (i. no loops of multiple arcs) A=3 D_1 D_2 D_2 D_2 D_3 D_4 D_3 D_4 D_3 D_4 D_4 D_5 D_6 D_6