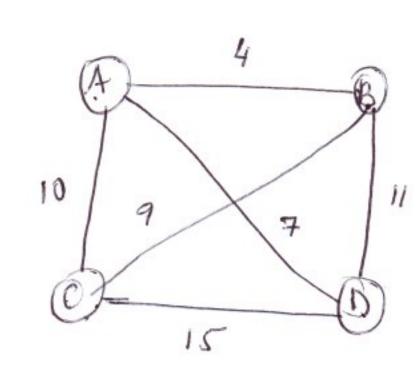
PROBLEM SHEET - 14

NAME : AISHWARYA.L

NUMBER: 677324

(1) (a)



(b)
$$A \rightarrow B \rightarrow D \rightarrow C$$
 : $4 + 11 + 15 = 30$
 $A \rightarrow C \rightarrow D \rightarrow B$: $10 + 15 + 11 = 36$
 $A \rightarrow C \rightarrow B \rightarrow D$: $10 + 9 + 11 = 30$
 $A \rightarrow B \rightarrow C \rightarrow D$: $4 + 9 + 15 = 28$
 $A \rightarrow D \rightarrow C \rightarrow B$: $7 + 15 + 9 = 31$
 $A \rightarrow D \rightarrow B \rightarrow C$: $4 + 11 + 9 = 27 \rightarrow Shorfest para$

(2) (a)
$$2 \rightarrow 3 \rightarrow 5 \rightarrow 1 = 1 + 6 + 7 = 14$$

 $5 \rightarrow 1 \rightarrow 4 = 1 + 5 = 12$

8) (a) Uxx + U44 =1

- . PDE 3 2 rd order, linear, non-homogenous, static
- , B.c.; Percodie (carde)
- · central difference scheme.

(b) 5UXX - 2UX + U2 = 2X

- o DOE, 2rd order, houvogenous, non-linear.
- o BC: Periodic
- · Prihad value Problem
- o tuler implicat method

(3)(c) 2ut + x·ux =0

- · PDE, homogenous, 1st order, time evolution
- · Bc: Diriallets B.C
- · IVP
 - à Euler couplicit memod [f.T.C.S.