

Date:

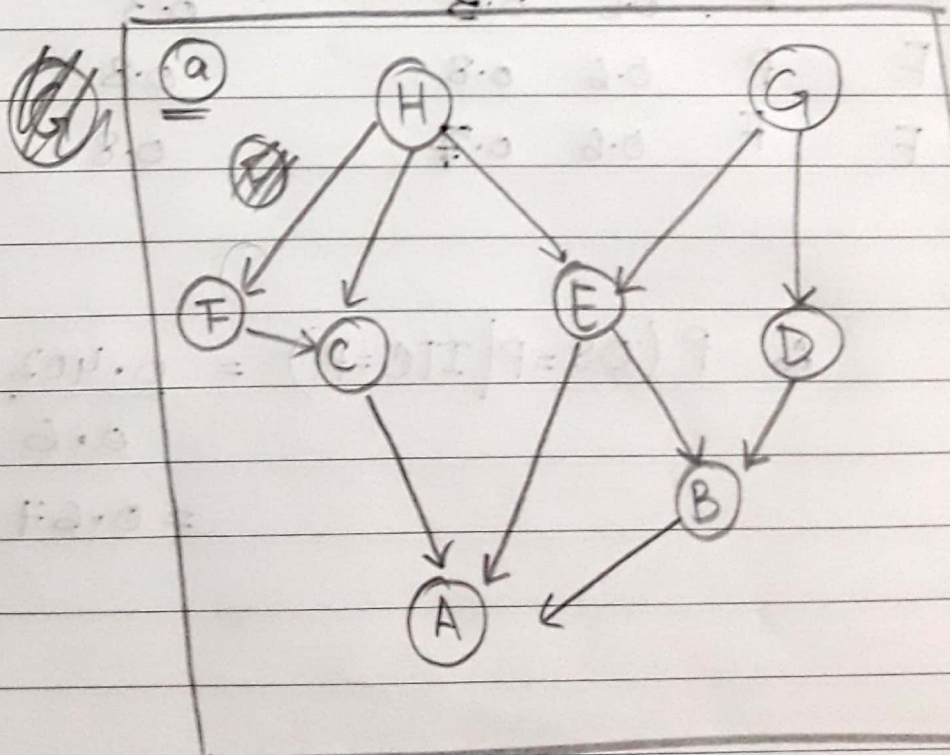
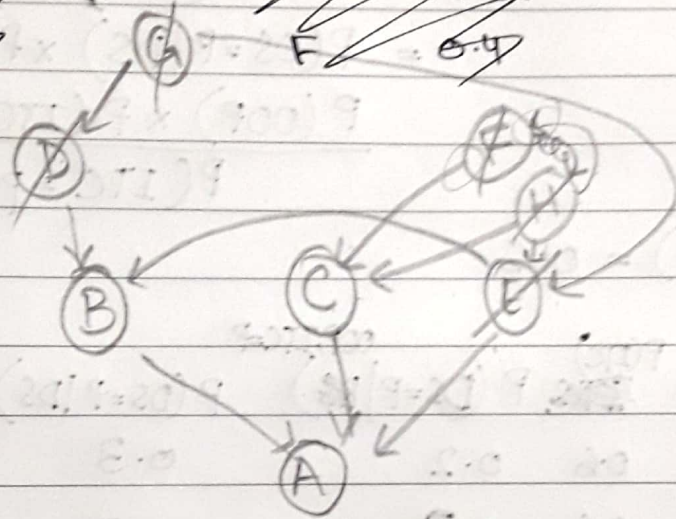
let true = pass
false = fail

30th April, 2020
Eisha Tr Raazia
17k-3730.
Section C.

~~DOF~~ ~~P(OOP)~~
T 0.4
F 0.6

~~P(ITC)~~
T 0.6
F 0.4

(a)



$$P(OS = Pass | ITC = Pass) = \frac{P(OS \wedge ITC)}{P(ITC = Pass)}$$

$$= \frac{P(OS = P | DS) \times P(DS | OOP, ITC = P) \times P(OOP) \times P(ITC = Pass)}{P(ITC = Pass)}$$

$$P(ITC = Pass) = 0.6$$

ITC	OS	DS	OOP	$P(ITC)$	$P(DS = P DS)$	$P(OS = P DS)$	$P(OOP)$	
P	P	P	P	0.6	0.2	0.3	0.4	$= 0.0144$
P	P	P	F	0.6	0.3	0.3	0.6	$= 0.0324$
P	P	F	P	0.6	0.8	0.8	0.4	$= 0.1536$
P	P	F	F	0.6	0.7	0.8	0.6	$= 0.2016$
								<u>0.402</u>

$$\therefore P(OS = P | ITC = P) = \frac{0.402}{0.6}$$

$$= 0.67 \text{ Ans.}$$