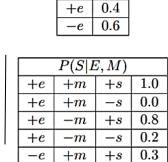
## **Bayesian Network**

## Question 1)

a. Draw the Bayesian Network that corresponds to this conditional probability: P(D/A,B) P(E/D) P(B/A) P(C/A) P(C)

b.



+m

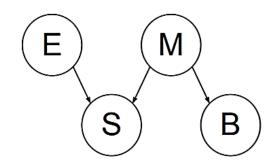
-m

-m

-e

-e

P(E)



P(M)		
+m	0.1	
-m	0.9	

P(B M)		
+m	+b	1.0
+m	-b	0.0
-m	+b	0.1
-m	-b	0.9

1b: Compute joint Distribution P (E, ¬M, S, ¬B, )?

 $0.7 \\ 0.1$ 

0.9

2b: Calculate P(+M| + S, +B, +E) using the network given above.