The False.

If B∈P, then A ≤ pB implies that A∈P.

Given that A∈NPC, so any NP problem

Can be polynomial time reducible to A.

In this case P=NP.

2) False.

→ BENP, means it has polynomial time verifier VB, constant kB such that x EB itf: Fcx => (1Ge1) = 11x11 & VB(2,G2)=1

4) Yes it is in NP.

-> Fox every composite number, a factor of
the num. is a certificate. Divide the
num. by factor -> remainder 0 then verified.

So the factor - at most n bits.

verification - polynomial in n.

Hence NP.

(5) True.

(6) Let there be a graph G=(V,E) (Vertex Cover)

Since each edge will make at least one
as a count to the vertices connected to it.

So the total will be 2|E| -> even number

i. There is an even number of vertices in G

