Provide Natural Deduction Proofs of The following:

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Logic Scssion - Mon 30th Oct - W6

(Difficulty in yellow)

Q1: Constructive: ((17AVB) -> (1DVC)) -> (1D-C) -> A -> (-Moderate)

Q2: Classical: (1A -> BVC) -> 1B -> 1C -> A - Moderate

Q3: Constructive: (AAB -> 1C) -> (C-AA -> B - Easy)

Q4: Classical: ((AAB) -> 1C) -> (C-AA -> B - Easy)

Q5: Constructive: (A -> BVC) -> (B -> D) -> (2 -> BVD) -> 1D -> 1A - Har

Q6: (constructive: (D-AVC) -> (AAB -> C) -> DAB -> (C-Moderate)

Q7: (constructive: (C-> BVA) -> (B-> A) -> ((C-> A) VC) - Moderate

Q8: (Classical: (C-> B) -> (B-> A) -> (1C-> A) -> A - Moderate

Q9: (Classical: (C-> B) -> (B-> A) -> (1C-> A) -> A - Moderate

Q9: (Classical: (C-> B) -> (B-> A) -> (1C-> A) -> A - Moderate

Q9: (Classical: (C-> B) -> (B-> A) -> (AAB -> C) -> (BAC) -> Easy

Q12: (Constructive: (D-> AVC) -> (AAB -> C) -> (AVC) -> Easy

Q12: (Constructive: (D-> AVC) -> (AAB -> C) -> (DAB) -> C -- Moderate
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