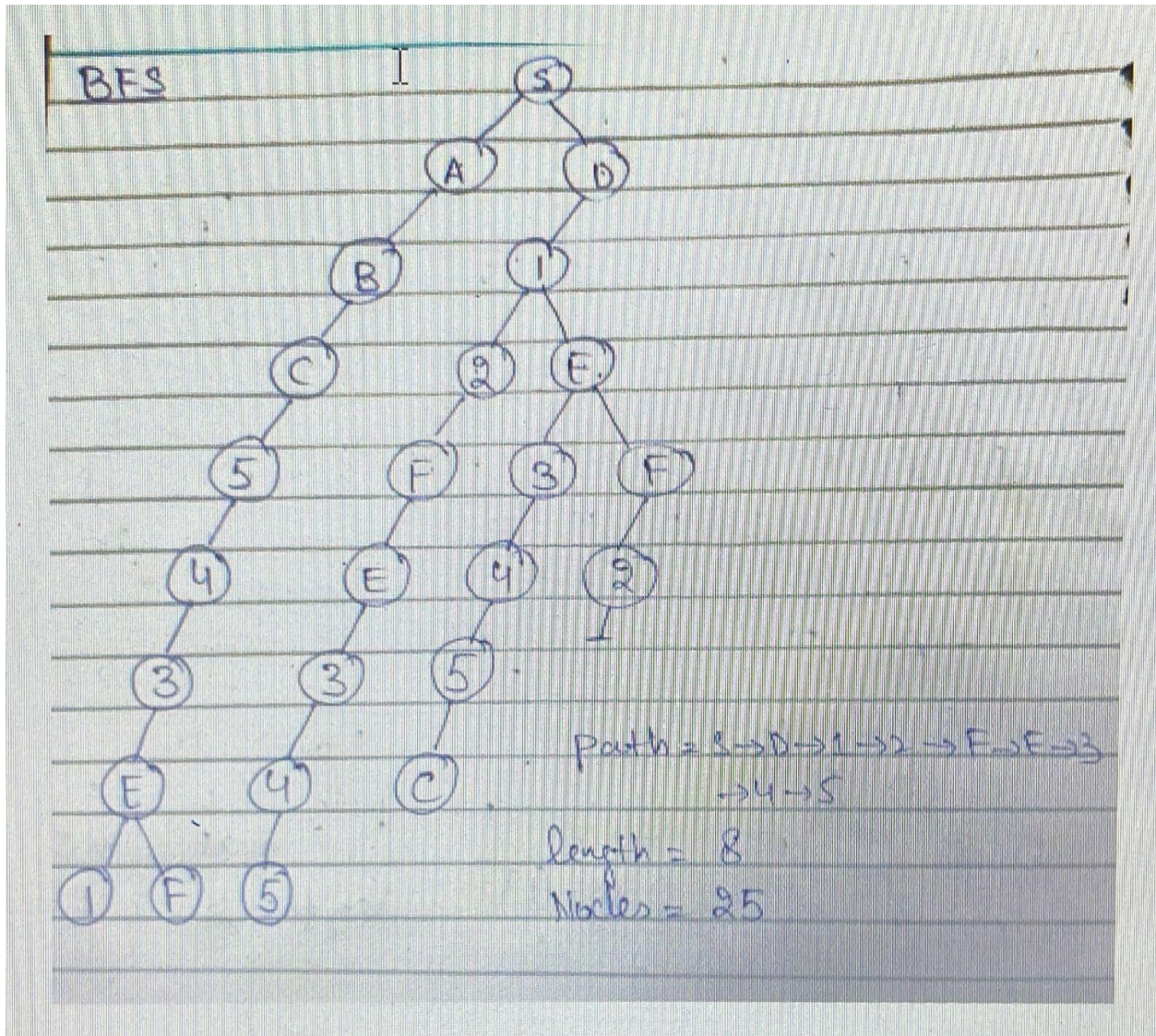# Answer Quiz 01 (A)

QUESTION 01:

QUESTION 02:

1. Type of Agent:

Utility-Based Agent

2. Type of Environment:

Partially Observable & Dynamic

3. State Space

State Space Representation (Diagram)

css

```
                    [Initial State: No Stocks Owned, Full Budget]
                                        |
              ┌─────────────────────────────────────────────────┐
        [Stock Prices Rising]                         [Stock Prices Falling]
                    |                                           |
           ┌────────────────┐                         ┌────────────────┐
     [Buy Stock A]   [Buy Stock B]               [Sell Stock A]   [Hold]
                    |                                           |
           ┌────────────────┐                         ┌────────────────────┐
     [Hold or Sell]   [Buy More]                 [Wait for Recovery]   [Exit Market]
```