

Answer 1

- i | 1 mark per bullet to max 2
- Collection of data nodes/vertices(1)
 - Connections/edges are set between nodes/vertices(1)
 - Graph (edges) can be directional or bi-directional(1)
 - Graphs (edges) can be directed or undirected(1)

2
AO1.1 (2)

Answer 2

Question	Answer	Marks	Guidance
(c)	<ul style="list-style-type: none"> • Takes in code of airport (1). • Iterates through the array (1). • Checks the value of the code column at each iteration (1). • To see if it is equal to code given (1). • When it is, it takes the airport name from the name column (1). • And prints it to the screen (1). 	6 AO3.2 (6)	<p>For 6 marks – 1 mark for each correct step in process.</p> <p>Any program that has the functionality specified in the question should receive full marks.</p> <p>Array could be 0 or 1 based.</p> <p>Examples include:</p> <pre>code=input("Please enter code") i=0 while airports[1,i]!=code i=i+1 endwhile print("The airport is: "+airports[2,i])</pre> <p>OR</p> <pre>code = input("Please enter code") name="" for i=0 to 7 if airports[1,i]==code then name=airports[2,i] endif next i print("The airport is: "+name)</pre>

How to visualise the table:

	1	2	1	2	1	2
array = [[BCN,Barc]	,	[DUB, Dublin]	,	[LIS, lisbon]	...and so on]
	1		2		3	

How to read the table:
 array(1,1) -> BCN
 array(1,2) -> Barc
 array(2,1) -> DUB
 array(3,2) -> Lisbon

A possible solution to the exam question

```
INPUT code
FOR row 1 - 8:
    IF airports(row, 1) == code:
        PRINT airports (row, 2)
```

Answer 3

- | | | | |
|-----|--|----------------|--|
| (b) | <ul style="list-style-type: none"> • Accounts.doc, budget.xls (1). • Followed by beach.jpg, sunset.jpg, hotel.jpg (in any order) (1). • Followed by tournament.xls (1). | 3
AO2.1 (3) | <p>For 3 marks.</p> <p>If answer includes directory names ignore the directories and just mark order of files.</p> |
|-----|--|----------------|--|