



12 Pages

1. Please give the information requested in the boxes below.
2. Enter your name in the space provided to the right, fold over and seal down (using the label provided) to hide your name.
3. The answers must be legibly written. The Examiners can either ignore illegible script or have it typed and the expense of typing charged to the candidate.
4. Write your answers in ink.
5. Begin each answer on a fresh page. Do all rough work in the answer book and cross it through.
6. No part of this book is to be torn out; it must be handed in complete.
7. If more books than one are used, fasten them together using the tags available from the invigilator(s).
8. **Every book must be handed in. In no circumstances may answer books, used or unused, be taken out of the examination venue.**

(see note 2 below)

SURNAME: LEWIS

FORENAME(S): LEONI

ROSE

1	Student Number	125916
2	Title of Examination Paper	Computer Architecture and networks
3	Module Code	ACCA4001
4	Date and Time of Examination	10/5/18 15:00
5	Examination Venue	Pembrokeshire college
6	Seat Number	3
7	Number of Answer Books handed in	1

List the numbers of the questions you have attempted	Office Use
1	21
2	8
3	16
4	9
Office Use	54

1 DA) 128 64 32 16 8 4 2 1
1 1 1 0 0 0 ✓

3

1 AB) 1 0 1 0 0 0 1 1 ✓

3

⁵
~~128~~

128
35
32

1 BA) 128 + 64 + 32 + 4 + 2 = 230 ✓

3

160

70
230

1 BB) 64 + 16 + 2 + 1 = 83 ✓

3

1 2 3 4 5 6 7 8 9 A B C D E F

LC A) ~~0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0~~ 1 0 0 0 1 0 1 0 ✓

2

LC B) ~~1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1~~ 1 0 1 0 1 0 0 1 x

2 DA) 0 0 1 0 0 0 1 1 = 35 ✓

3

2 DB) 1 1 1 0 1 1 1 1 = 239 ✓

3

~~128~~

160

~~64~~

70

~~32~~

9
239

~~8~~

~~4~~

1

1 E) 8 x

0

1 F) 200 x 800 = 160000 x 16 = 1060000

1

~~16~~

32

~~16~~

~~8~~

~~4~~

~~2~~

~~1~~

Storage capacities.

They also provide faster transfer speeds ✓ 2
as there is no waiting for a pin to
retrieve the data after looking through
all the other data stored. ✓

A disadvantage is that they ~~are~~ can
be lost.

- 3) 1 EASE OF SETUP ✓
2 TRANSPORT ENCAPSULATION x
3 Crossover TWISTED-PAIR ✓
4 128 ✓
5 200.165.200.215 ✓
6 MULTICAST x
7 TRANSPORT ✓
8 Selecting the path to destination network
9 SPYWARE ✓
10 LAN DEVICES ✓
11 HTTP SERVER x
12 BANDWIDTH; THROUGHPUT ✓
13 BRUTE FORCE ✓
14 DATA x
15 NFC ✓
16 10.1.1.1 ✓
17 DEFAULT GATEWAY x
18 FRAME UDP x
19 TCP x
20 DOS x
21 SMTP x
22 SSH x
23 FF:FF:FF:FF:FF:FF x
24 PHYSICAL NETWORK TOPOLOGY x
25 NETWORK INTERFACE CARD ✓ 13
~~26 SMALL PHYSICAL NETWORK TOPOLOGY~~
27 INTERNET x
28 FRAME x

4c) APPLICATION
TRANSPORT

3

DATA LINK

4D) 128 64 32 16 8 4 2 1
4E) M 1 1 0 0 0 0 0 0

~~128~~ 128 64 32 16 8 4 2 1
~~128~~ 128 64 32 16 8 4 2 1
~~128~~ 128 64 32 16 8 4 2 1
1 0 1 0 1 1 0 0 1 0 1 0

128+
64
192
32
224
16
240
8
248
2
252
2
254

- i) 11000000. 10101000. 11010. 100110 ✓
ii) 10101100. 11001000. 100110. 1111110
iii) 1111111. 1111111. 1111111. 11110000 ✓

1

1



Question No.

Examiner Only

