

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: Clanville

FORENAME(S): James Joseph

1	Student Number	111 298
2	Title of Examination Paper	Computer Architecture and Networks
3	Module Code	ACCT4001
4	Date and Time of Examination	10/05/2018
5	Examination Venue	Pembrokeshire College
6	Seat Number	
7	Number of Answer Books handed in	1

List the numbers of the questions you have attempted	Office Use
1	10
2	5
3	18
4	5
Office Use	38

256 | 128 | 64 | 32 | 16 | 8 | 4 | 2 | 1

Q1) a) 111000 ✓
10100011 ✓

3

3

b)

b)
$$\begin{array}{r|rrrrrrrr} 128 & 64 & 32 & 16 & 8 & 4 & 2 & 1 \\ \hline 1 & 1 & 1 & 0 & 0 & 1 & 1 & 0 \end{array} = 234 \times$$

a)

b)
$$\begin{array}{r|rrrrrrrr} 128 & 64 & 32 & 16 & 8 & 4 & 2 & 1 \\ \hline 0 & 1 & 0 & 1 & 0 & 0 & 1 & 1 \end{array} = 83 \checkmark$$

3

c)

a)

b)

D) a)

b)

e)
$$\text{a) } \underline{8+4+2+1} = 15 \times$$

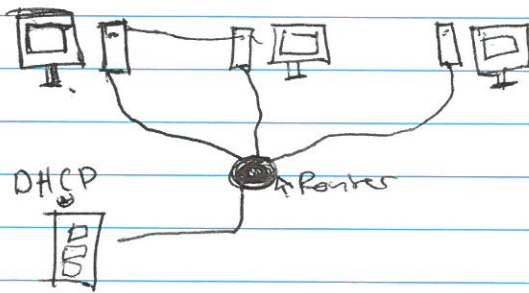
b)

f)
$$200 \times 800 \text{ ~~16~~ } = 160000 \times 16$$

1

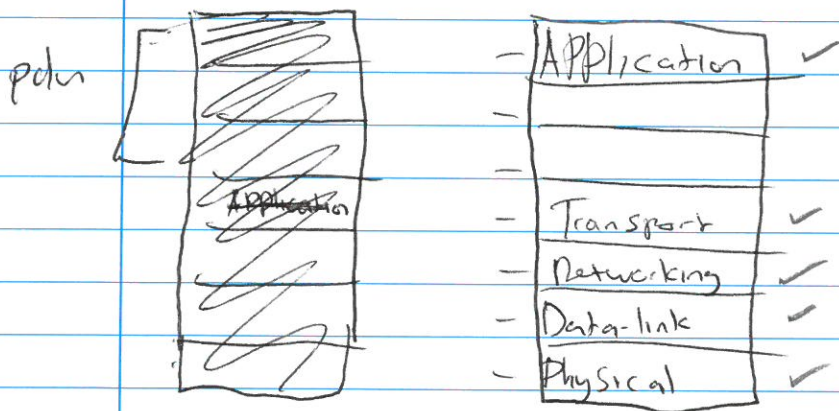
- 9) Spyware ✓
- 10) LAN Devices ✓
- 11) Reference model x
- 12) Bandwidth Through put ✓
- 13) Brute force ✓
- 14) SMTP ✓
- 15) NFC ✓
- 16) 10.1.1.1 ✓
- 17) SSH ✓
- 18) Data x
- 19) 200.165.200.215 x
- 20) DNS ✓
- 21) Reference model x
- 22) Transport ✓
- 23) Email x
- 24) FF.FF.FF.FF.FF.FF ✓
- 25) Network Interface Card. ✓
- 26) UDP x
- 27) Internet x
- 28) Physical network Topology x
- 29) HTTP x
- 30) default gateway x

12



- a) The DHCP Server connects to the Router with an IP address and a Subnet mask. The Router is then in charge of Distributing the IP addresses to each computer starting from the first ethernet port. It will sometimes contain a DHCP pool if certain requirements are needed from the network. Once assigned any Data transfer will go through the router as a middle man as it knows the location of each PC.

b)



5

c)

d)



Question No.

Examiner Only



Question No.

Examiner Only

