



Prifysgol Cymru  
Y Drindod Dewi Sant  
University of Wales  
Trinity Saint David

## Examination Answer Books

12 Pages

### Instructions to Candidates

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.

Complete, fold and seal  
(see note 2 below)

SURNAME:

GREEN

FORENAME(S):

RICHARD  
JOHN  
CHARLES

|   |                                  |                         |
|---|----------------------------------|-------------------------|
| 1 | Student Number                   | 1704571                 |
| 2 | Title of Examination Paper       | Computer Systems        |
| 3 | Module Code                      | MLX01500                |
| 4 | Date and Time of Examination     | 15/4/19<br>15.00hrs.    |
| 5 | Examination Venue                | Room 310<br>SA1 Campus. |
| 6 | Seat Number                      | /                       |
| 7 | Number of Answer Books handed in | 1                       |

| List the numbers of the questions you have attempted | Office Use |
|------------------------------------------------------|------------|
| 1                                                    | 10         |
| /                                                    |            |
| 3                                                    | 0          |
| /                                                    |            |
| /                                                    |            |
| /                                                    |            |
| 7                                                    | 0          |
| 8                                                    | 1          |
| 9                                                    | 3          |
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|                                                      |            |
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| Total                                                | 14/60      |

23%

(Gweler yr ochr arall am y fersiwn Cymraeg)

①. Convert from Decimal to binary.

a, 7.

ans. 0111. ✓

b, 12.

ans. 1100. ✓

c, 100.

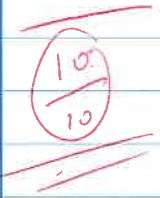
ans. 01100100. ✓

d, 211.

ans. 11010011. ✓

e, 4096.

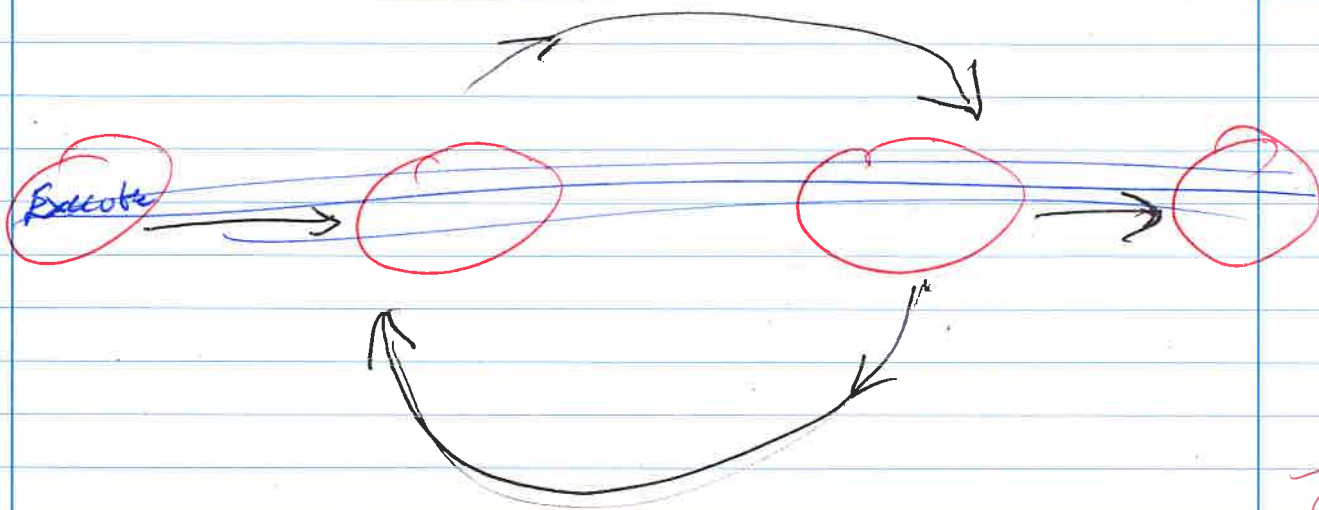
ans. 0001000000000000. ✓



② the basic features of the Von Neumann computer architecture.



② the above process states in scheduling in a multiprocessing system



10

⑦ What are the Principal differences between the compiled and interpreted approaches to software execution?

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Compiled execution operates in a linear method by numeric priority, so 1st, second, third operation in sequence.

X

interpreted execution use shorter operations for to speed the process and re-use singular operations to save constant time - Run process time.

X

9  
10

⑧ Differentiate between high level and low level computer programming languages.

High level languages are more complex code, usually more complex operating systems and software development usage.

Low level languages are more 'Readable' with user/operator alterations possible and can run as part of other programs.

1/10

Q Explain the use of the Domain Name Service (DNS) and Dynamic Host Configuration Protocol (DHCP) with networked computer systems.

DNS and DHCP systems differ in their allocation. DNS being manually allocated by individual users or operators when systems are connected while DHCP are automatically allocated within a range by the network server system.

DNS has scope for error due to human error (operator & keyboard interaction) with possible numerical input issues.

DHCP will allocate an unused address automatically ~~not~~ through a process of allocation with. Through a process of Rolling allocation until a 'Free' address is found.

No

✓

✓

x

✓

3  
10