

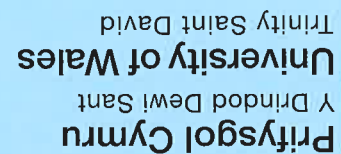


12 Pages

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.**

[illegible]

(Gweler yr ochr arall am y fersiwn Cymraeg)



12 Tudalen

1. Rhwch yr holl wybodaeth y gofynnir amdani yn y blychau isod.
2. Rhwch eich enw yn y lle a ddarparwyd ar y dde, plynwch ef at y seilio i lawr (gan ddefnyddio'r label a ddarparwyd) i guddio'ch enw.

1. Rhaid i'r atebion fod mewn llawysgriften ddarlennadwy. Gall yr Arholwyr naill ai anwybyddu sgrïpt annarllennadwy, neu drefnu iddi gael ei theipio a chael yr ymgeisydd i dalu.
2. Rhaid dychwelyd pob llyfr. Ni chaniateir mynd â llyfrau atebion, wedi eu defnyddio neu heb eu defnyddio, allan o'r lleolia arholi o dan unrhyw amgylchladu.
3. Os defnyddir mwy nag un llyfr, rhwymwch hwy gyda'i gilydd gan ddefnyddio'r tagiau sydd ar gael oddi wrth y gwyllwyr/gwylywyr.
4. Ni ddylid rhwgo unrhyw ran o'r llyfr. hwn; rhaid ei gyflwyno yn gyfan.
5. Dechreuwch bob ateb ar dudalen newydd. Gwnewch unrhyw fras nodiadau yn y llyfr atebion a thynnu llinell dryddynt.
6. Ysgrifennwch eich atebion mewn inc.

7	Nifer y Llyfrau Atebion a gyflwynwyd	
6	Rhif Sedd	
5	Lleoliad yr Arholiad	
4	Dyddiad ac Amser yr Archoliad	
3	Cod y Modwl	
2	Teitl y Papur Arholiad	
1	Rhif Myfyrwr	

(See the other side for English version)

Rhesurwch ffau'r cwestiynau a ymgeiswyd gennych	
At Ddibenion y Swyddfa	

ENW(AU) CYNTAF:

Lienwch, plygwch a seliwch
(gweler nodyn 2 isod)

$$i) \textcircled{1} (769)_{10} \xrightarrow{10} \overline{769}^{10} \quad 2 \quad \boxed{2} \quad \underline{\underline{1}}$$

$$(9A2)_{16}$$

$$\text{9102} \xrightarrow{2} \overline{9102}^{16} \quad \boxed{4551}$$

$$(9A2)_{16} \equiv \overline{87}^{10} \quad \underline{\underline{0}} \quad \underline{\underline{111}} \quad (7)$$

$$ii) \textcircled{2} (87)_{10} \quad \underline{\underline{8}} \quad \underline{\underline{111}} \quad (7) \quad \boxed{= 8} \quad \underline{\underline{0}}$$

$$(5D9)_{16}$$

$$\boxed{010111011001}$$

$$iii) \textcircled{3} (110101001)_2 = \boxed{1.651} \quad \underline{\underline{0}}$$

$$(50E)_{16}$$

$$\underline{\underline{1110}}$$

$$\rightarrow \boxed{1.0101110} \quad \underline{\underline{0}}$$

$$iv) \textcircled{4} 4278$$

$$\boxed{010000100111000} \quad \underline{\underline{0}}$$

$$670$$

$$\boxed{011011100000} \quad \underline{\underline{0}}$$

USING HEX TABLE

- ② ① RAM → MEMORY ✓
- ② ETHERNET PORT → COMMUNICATION DEVICE ✓
- ③ MICROPHONE → INPUT / OUTPUT DEVICE ✓
- ④ FLASH DRIVE → STORAGE DEVICE ✓
- ⑤ GAMEPAD → INPUT ✓

2.5 GHz is 2500 MHz

5000 / DIVIDE

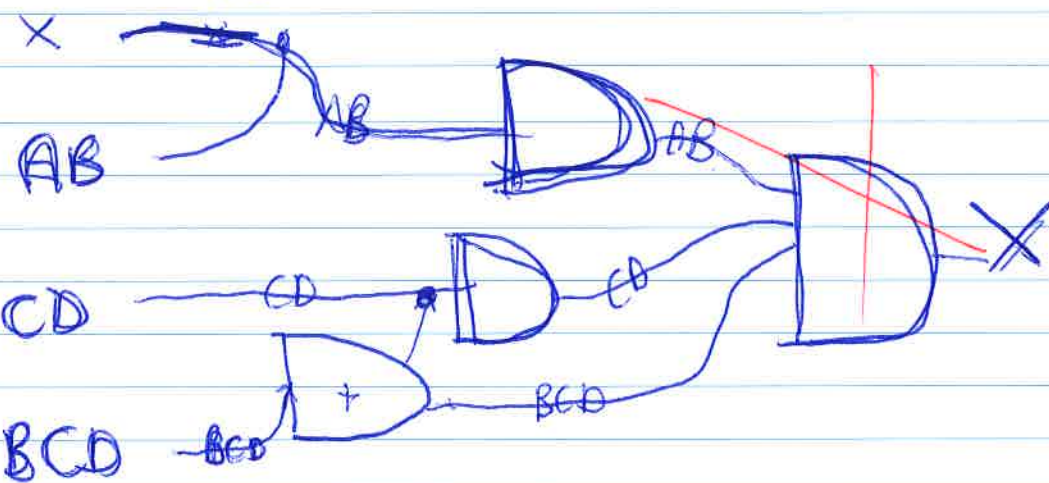
$2 \times 2.5 = 5000$
GHz

$= \frac{10 \text{ MHz}}{1000}$

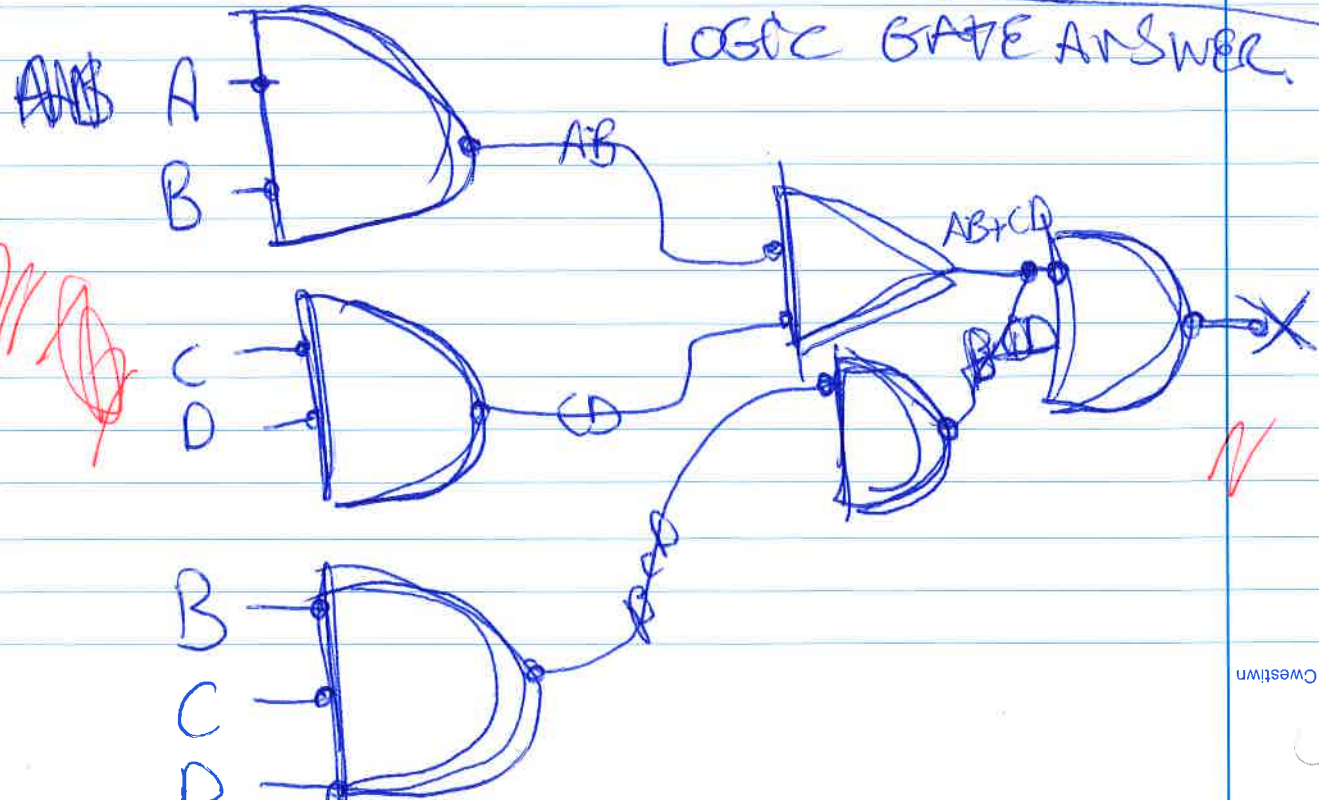
ANSWER.

$X = AB + CD + BCD$

$10 = 1010_{10}$



LOGIC GATE ANSWER.



⑤ RAID = RAID STRIPS DOWN the characteristics of the devices its controlling.
RAID can dissect information and control info from its devices



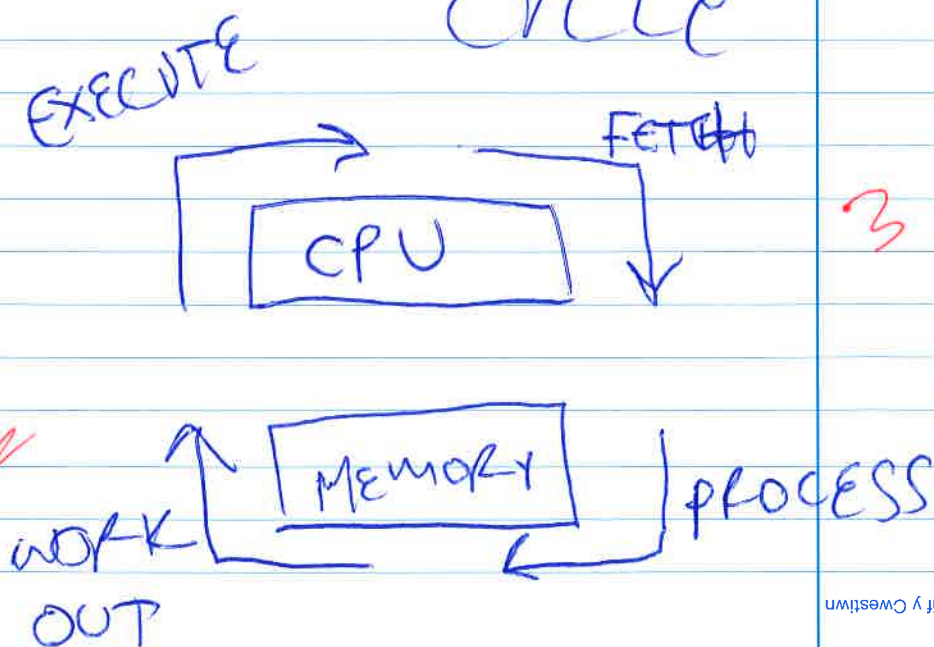
the advantage is that it can enhance work rate because it can go into multiple ~~avenues~~ avenues.
Disadvantage is the it can be easily tapped into or corrupted.

⑥

FETCH EXECUTION

CYCLE

- ① BRING IN THE INFORMATION
- ② PROCESS THE INFO
- ③ WORK OUT
- ④ EXECUTE ANSWER + COMPLETE



VON NEUMANN
ARCHITECTURE

