

WAKISSHA JOINT MOCK EXAMINATIONS
MARKING GUIDE
 Uganda Certificate of Education
COMPUTER 840/1
UCE July / August 2014



SECTION A (20 MARKS)

- | | | | | |
|------|------|-------|-------|-------|
| 1. A | 5. D | 9. A | 13. C | 17. C |
| 2. A | 6. B | 10. B | 14. A | 18. C |
| 3. D | 7. C | 11. A | 15. A | 19. B |
| 4. C | 8. D | 12. C | 16. D | 20. D |

SECTION B (60 MARKS)

21. (a) i) Computer with moving parts (morable parts) 1 x 1 mark
- ii)
- Diligence.
 - Versality. 4 x 1 marks
 - Storage.
 - Artificial intelligence.
 - Accuracy.
- (b)
- Authentic logic unit.
 - Control unit.
 - Registers / memory. 3 x 1 marks
- (c)
- Authentic logic unit – logical / calcukations.
 - Control unit – cordinalis computer activities.
 - Registers – Temporary memory. 2 x 1 marks

22. (a) i) Coding transferring data with a form that computer can process / understand
2 x 1

- ii) ASCII (America standard code for ... *in german interchange code*)
 EBCDIC (Extended Bimy coded decimal ... *in german interchange code*) 2 x 1

(b) i)

	256	
1	128	0
2	64	0
2	32	0
2	16	0
2	8	0
2	4	0
2	2	0
2	1	1

= 1000000₂

ii) 10101010

$$(1 \times 2)^7 + (0 \times 2)^6 + (1 \times 2)^5 + (0 \times 2)^4 + (0 \times 2)^3 + (1 \times 2)^2 + (0 \times 2)^1 + (1 \times 2)^0$$

$$128 + 0 + 32 + 0 + 8 + 0 + 2 + 0$$

$$= 170_{\text{ten}}$$

1 for powers
1 for formula
1 for answer

23. (a) i) Disk operating system

ii)

DOS ()	Windows
<ul style="list-style-type: none"> - Takes up little memory - Operation is fast because commands can be entered directly. - Many commands can be fro.....in a batch. - Commands have to be learnt. - Commands have to be memorized. 	<ul style="list-style-type: none"> - Requires more memory as well as a faster pressure. - Depend on the strength of the computer. - Difficult to automatic functions. - User friendly easy to learn. - No need to memorise command.

2 x 1 for complete comparison

(b) – Programs that perform a specific task usually related to managing computer and its device.

01 x 1

ii)

- Disk scan.
- Anti-virus.
- Disk defra.....
- Diagurstic utility.
- Backup utility.
- Screen saver.

2 x 1

(c) Screen saver

Any 4 utility x 1

24. (a) i) Alternative – loss ofon the signal strength.

ii) Band width – Oily of data transmitted through a media.

1 x 2

(b)

- Sending device.
- Receiving device
- Communication channel.
- Communication device.
- Communication software.

3 x 1

(c) i) Communication channels – penth through which data or signal are sent and media materials or techniques capable ofover more signals.

ii)

- Coaxial cables.
- Fibre optical cable.
- Blue tooth
- Twisted power cable.
- Radio.
- Micro ware.
- Infrared signals.

3 x 1

25. (a) i) Application packages that helps in the manipulation of figure.
 ii) or application software organised in columns and rows.

- Ms excel – Rag time
- Qn.....pro – Spread 32
- Lotus 1 2 3 – Gs – Calc
- Supa cal – Ms office Excel
- - viscal calc
- Symphony

2 x 1

(b) i) = (B₂ + C₂ + D₂)

AVG = or @ (B₂ + C₂ + D₂) or + D₂ + C₂ + D₂

1 x 1

$$= (B_2 + D_2 + C_2) / 3 \text{ Or } = \left(\frac{E_2}{3} \right) \text{ Or } E_2 / 3$$

1 x 1

ii) E₄ and F₄ D₇ E₇

2 x 1

iii) 24 1 34

86 96

1 mark for all figures written

iv) = (B₂ + B₃ + B₄ B₅ + B₂)

1 x 1

26. (a) i) Text / memory

1 x 1

ii) Currency

1 x 1

(b) Employe number

1 x 1

(c) Salary x No. of month

2 x 1

(d) i) Database with more than one table.

ii) Database where relation are created.

- Ms access
- Dbase
- SQL server
- Q + A
- Group devices sharing.

27. (a) Network is collection of computers sharing with one another while network topology is the arrangement of computers on the network.

(b) Uses / importance of networks.

- Communication.
- Easy administration.
- Resource sharing.
- Research
- Online learning
- Cost minimisation
- Ensures security
- For adverting
- Easy administration
- E-commerce
- E – banking
- E – health
- Leisure and Entertainment

1 x 2 @

1 m point

1 explanation

28. Internet is world wide network or collection of computers.

Merits

- CAI and CAL packages.
- Students can learn by themselves.
- Students can do assignments.
- Students get feed back fast.
- Rich educational resources.
- Easy presentation of subject matter by teachers.
- Advanced instructions.
- Experiments done easily.
- Its fast
- Its less costly
- Depends on ISP

5 x

Demerits

- Face to face interaction between students and teachers denied.
- Initial investment high.
- Need for trained staff to run the project / literate
- Blind and dumb eliminated / limited
- Limited to power presence.

5 x 2 @

29. (a)

- Diskettes.
- Hard disks. (CD, DVD)
- Flash memory (VCD)
- Optical tape. Blue ray
- Punched cards.

4 x 1 @

(b)

1. Diskettes
 - Thin and circular.
 - Flexible plastic disk.
 - Should not be exposed to heat.
 - Must be formulated before use.
2. Hard disk.
 - Consists of inflexible circular disks.
 - Sealed tightly.
3. CD – ROM (Compact Disk Read Only Memory)
 - Player required.
4. Tapes
 - Magnetically coated.
 - Storage requires sequential access.
5. Optical

4 x 1

4 x 1

4 x 1

4 x 1

END