

Department of Education – Western Province
Information and Communication Technology
Year End Evaluation - 2017
Marking Scheme
Grade 11

Paper 1

Question Number	Answer	Question Number	Answer	Question Number	Answer	Question Number	Answer
1	3	11	1	21	2	31	2
2	4	12	1	22	4	32	3
3	2	13	2	23	2	33	3
4	3	14	3	24	2	34	2
5	3	15	3	25	1	35	2
6	2	16	3	26	1	36	4
7	2	17	1	27	2	37	3
8	4	18	2	28	3	38	3
9	2	19	4	29	2	39	1
10	2	20	2	30	4	40	3

(1 x 40 = 40 marks)

Paper 2

1.

(i) 345_8

(011)(100)(101) _____ (0.5 m)

(1110)(0101) _____ (0.5 m)

$E_{5_{16}}$ _____ (1 m)

(ii) D ----- $\rightarrow \overline{A + B}$ _____ (1 m)

E ----- $\rightarrow B \cdot C$ _____ (0.5 m)

Q ----- $\rightarrow \overline{A + B} + B \cdot C$ _____ (0.5 m)

(iii) Magnetic media devices - Hard Disk, Floppy Disk, Magnetic Tape

Optical media devices - CD, DVD, Blue-ray

Solid state devices - USB flash drive, Memory card

(for devices - 0.5x2 for example - 0.5x2)

- (iv) ① ---→ Ring Topology
- ② ---→ Star Topology
- ③ ---→ Bus Topology
- ④ ---→ Mesh Topology

(0.5 x 4 =2 marks)

- (v) (a) U
- (b) S

(1 x 2 =2 marks)

- (vi) (a) 8
- (b) 2
- (c) 10
- (d) 4

(0.5 x 4 =2 marks)

- (vii) A=18 B=10

(1 x 2 =2 marks)

- (viii) Waterfall Model , Iterative Incremental Model, Prototyping Model, Spiral Model

(1 x 2 =2 marks)

- (ix) P -----→4
- Q -----→1
- R -----→2
- S -----→3

(0.5 x 4 =2 marks)

- (x) Energy conservation / less e - waste problem / sustainability benefits

(1 x 2 =2 marks)

(2 x 10 = 20 marks)

2.

- (i) (a) Digital Divide

(2 marks)

- (b) Supply computers / remove financial restrictions/ introduce ICT as a subject/
Third part invention, etc...

(1 x 2 =2 marks)

- (ii) Musculoskeletal problem , Repetitive Stress Injury (RSI) , Carpel Tunnel
Syndrome(CVS),Stress

(1 x 2 =2 marks)

(explanation 1 x 2 =2 marks)

- (iii) Surge protector

(2 marks)

3.

(i)

- 1 ---→ Q
- 2 ---→ R
- 3 ---→ S
- 4 ---→ T
- 5 ---→ P

(1 x 5 =5 marks)

(ii)

- 1 - center
- 2 - h2
- 3 - src
- 4 - justify
- 5 - ul
- 6 - circle
- 7 - href
- 8 - br
- 9 - border
- 10 - colspan

(0.5 x 10 =5 marks)

4. (i)

- (a) function 1 → MAX
- cell 1 -----→ B2
- cell 2 -----→ B5

(0.5x 3 =1.5 marks)

- (b) =C2*B\$7
- (c) =C2 - D2
- (d) =B2 *E2
- (e) = SUM(F2:F5) , =F2+F3+F4+F5 (No Marks)

(1 x 4 =4 marks)

(ii) (a) =B2^2 OR =B2*B2

(1.5 marks)

(b) = B2+B3+B4 OR =SUM(B2:B4)

(1 mark)

(c) Scatter

(2 marks)

5.

- (i) Item_ID ---→ Item Table
- B_ID ---→ Buyer Table

(1 x 2 =2 marks)

(ii) (a) Item Table

(0.5 marks)

(b)

Item_ID	Item	Stock
1004	Flower Structure	25

(1 mark)

(iii)

- (a) Buyer Table
Hire Table
Item Table

(1.5 marks)

(b)

B_ID	Name	Address
B009	Tech Vision	Maharagama

Date	Item_ID	B_ID	No of Item
12/05/2017	1004	B009	12
12/05/2017	1001	B009	25

Item_ID	Item	Stock
1004	Flower Structure	13
1001	Dinner Set	75

(5 marks)

6.

- (i) Observation/ Interview/ Questioner/ documentation/ prototyping
(ii) Less time consuming/ less errors/more data in a less space
(iii) A -----→F
B -----→E
C -----→H
D -----→G
(iv) Parallel Deployment
Phase Deployment
Pilot Deployment
Phased Deployment
(v) Results are expected at the end of the process. Therefore errors or unexpected results cannot be identified before /Complete one stage before going to the next phase.

(2 X 5 =10 marks)

7.

- A. count <= 50
- B. EN
- C. Yes
- D. No
- E. NH - 40
- F. NH * 200
- G. salary / EN
- H. EN /salary
- I. count

(0.5 x 9 =4.5 marks)

(ii)

```

Begin
Enter z_score
If z_score < 1.5
    Print "you are not selected to university"
Else
    If z_score < 2.0
        Print "you are selected to Biology faculty"
    Else
        If z_score <2.5
            Print "you are selected to vetnary faculty"
        Else
            Print "you are selected to Medical faculty"
        End if
    End if
End if
End

```

Begin , End

(0.5 marks)

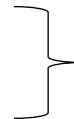
Enter z_score

(1mark)

If z_score < 1.5

Print "you are not selected to the university"

Else



(1 mark)

If z_score < 2.0

Print "you are selected to Biology faculty"

Else

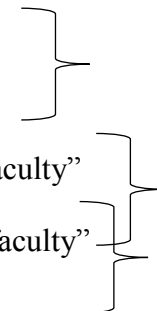
If z_score < 2.5

Print "you are selected to vetnary faculty"

Else

Print "you are selected to Medical faculty"

End if



(1 mark)

(1 mark)

(1 mark)