

**Provincial Level Examination - Scheme – O/L ICT November**

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

**01)**

- i. Radio wave, Microwave (or any relevant answer).
- ii. **Input:** Giving recharge card number. **Process:** Validating recharge card number and crediting cash into Customer’s account. **Output:** Informing balance to the customer.
- iii. A – 4, B – 3, C – 1, D – 2
- iv.  $65_8$
- v.  $\overline{X} Y Z.(X + \overline{Y}) = \overline{X} Y Z X + \overline{X} Y Z \overline{Y} = 0$

vi.

A	B	A+B	$\overline{B}$	$A\overline{B}$	$A\overline{B}+B$
0	0	0	1	0	0
0	1	1	0	0	1
1	0	1	1	1	1
1	1	1	0	0	1

vii. System software: MacOS, Linux  
Application software: Opera, Adobe Photoshop

viii. 1, 10, total=count+total, total

ix. Adopting new user requirements.  
Correcting faults after implementation.

x. Advantage: Less cost  
Disadvantage: High risk.

**02)**

- i. Easy to communicate with all the sections of school.  
Administrative/managerial tasks of school can be easily/quickly carried out.
- ii. Easy to communicate with other teachers regarding school day-to-day works.
- iii. Video camera, Screen, Analog/digital converter, Cables (or any relevant answers).
- iv. Giving password for authorized principal/teachers/students.

**03)**

- i. Bar chart, Column chart (or any relevant answers).
- ii. =sum(B2:G2) or =sum(B2,G2) or @sum(B2:G2) or +sum(B2:G2) or =+sum(B2:G2)
- iii. Average(B2:G2) or = (B2+B3+B4+B5+B6)/5
- iv. = H2+H3+H4+H5+H6

**04)**

- i. Text or Number or String  
Text or Number or String  
Text or String  
Currency  
Yes/No  
Date/Time or Date

- ii. Data redundancy – Repeating a field (or column) of a table in two or more tables. It must be minimized/removed in a good database design.  
Primary key – One or more fields of a table are combined in order to uniquely identify a tuple (or record).  
Data backup – Process of copying data into another medium/place in order to recover data if any data lost occurs.

**05)**

- i. P - <html>  
Q – text  
R – reset  
S - </body>

- ii. **Digital signature** – Digital signature is a **security** approach used in the Internet, which is used to **authenticate** the sender to the receiver.  
**Software piracy – Unauthorized copying** of computer software, which is illegal as well as unethical.  
**Open source software** – computer software that is available **with source code**. Users are permitted to study, change, improve and to distribute the software.

**06)**

- i.
- A – n+1
- B - Yes
- C – No
- D –Yes
- E - No

**ii.**

```
Begin
    num=1
    sum=0
    DO WHILE(num<=10)
        Input marks m
        num=num+1
        sum=sum+m
    END WHILE
    Average=sum/(num-1)
    If Average > 50 Then
        Display "Good"
    Else
        Display "Bad"
    End If
End
```

**07)**

1. Customers can easily check the availability of Books / Purchase / Payment settlement. A customer can obtain 24/7 services from "EverBooks".
2. "EverBooks" can inform the customers "Uptodate" information quickly/easily. "EverBooks" can give 24/7 services for their customers.
3. Customer, EverBooks, Bank, Payment Intermediary (Such as Paypal).
4. Profile about "EverBooks" such as address, Roadmap, History,. etc.  
Details of Books  
Relevant information for purchasing of books via online.  
Details about any promotion/offer.