Information & Communication Technology (ICT) – 2015

ANSWERS

PAPER 1

Ques. No.	Answer	Ques. No.	Answer	Ques. No.	Answer	Ques. No.	Answer
1.	3	11.	3	21.	3	31.	4
2.	2	12.	1, 4	22.	1	32.	2
3.	4	13.	4	23.	1	33.	4
4.	2	14.	2	24.	4	34.	4
5.	1	15.	4	25.	1, 3	35.	1
6.	1	16.	4	26.	1	36.	2
7.	1	17.	2	27.	2	37.	2
8.	3	18.	1	28.	4	38.	2
9.	2	19.	4	29.	2	39.	1
10.	3	20.	2	30.	2	40.	4

PAPER 2

Part II A – Structured

1(i).

P	Q	Z
0	0	0
0	1	1
1	0	1
1	1	1

ii).

$x + \bar{x}$
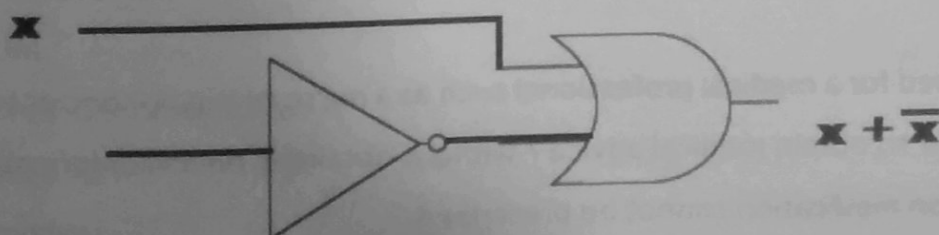
iii). Input — Camera, touch screen

Storage — USB drive (flash drive), Hard disk

iv). X: Wide Area Network (WAN)

Y: Local Area Network (LAN)

Z: Metropolitan Area Network (MAN)

v). 011, 010, 101

325

vi). D = 68

1000100

vii). A: false/F   B: false/F   C: true/T   D: true/T

viii). 1: crop   2: magic wand   3: clone stamp   4: hand tool

ix). 1 -> S   2 -> R   3 -> Q   R -> P

x).

Cycle Number	Sum	N
1	16	14
2	30	12
3	42	10
4	52	8

2. i). a). Sum (B4:B6)   b). = Sum (C4:C6)   c). = b8/b12

d). Bar/column chart

ii). a) True/T   b) False/F   c) True/ T

d) True/T   e) True/T   f) False/F

3. i). itemID, Item Table

SupID, Supplier Table

ii). a. Item Table, Purchase Table

b. P05, Tennis Ball, 30 record in 'Item Table'

22/9, S02, P05, 30 record in 'Purchase Table'.

iii). a. Item Table

b. P04, Volley Ball, 9

P02, Bat, 24

4. i). Because there is a need for a medical professional such as a nurse or a junior doctor to monitor and inform the doctor to obtain medical advice / without obtaining reliable information about the patient's condition medication cannot be prescribed.

Example – A junior doctor or a nurse monitoring a patient's condition at a regional center/nursing home, rural hospital etc.. and obtaining medical advice/prescription over the phone.

ii). Because his virus definition database is not updated. Even though he did not have internet access his computer can be infected through the use of external storage devices such as flash drives, CD etc.

iii). - A person who has authorised access to personal information stored in a computer system, provides this information to another unauthorised party (e.g. to promote marketing) without permission from owners of the information. (i.e. misuse of personal information which is under one's own responsibility).

- Accessing and sharing personal information with another party such as marketing companies without owners' knowledge/consent.

e.g. A person providing personal information such as name, address, and email address of customers of an organisation to marketing promotional company without permission.

iv). No. Firewall does not fulfil the need for data back.

v). Because it is illegal and unethical

Pirate software can include malware/virus

5. i). a. Interview/discussion, questionnaire, observation, document review/ document sampling

b. Input Data : weight of leaves per each day AND employee ID/ Name

c. Integration Testing, functional testing, system testing, acceptance testing

d. Parallel deployment. Because it is safe/ can run both until there is confidence about the new system

ii). C => A => D => B

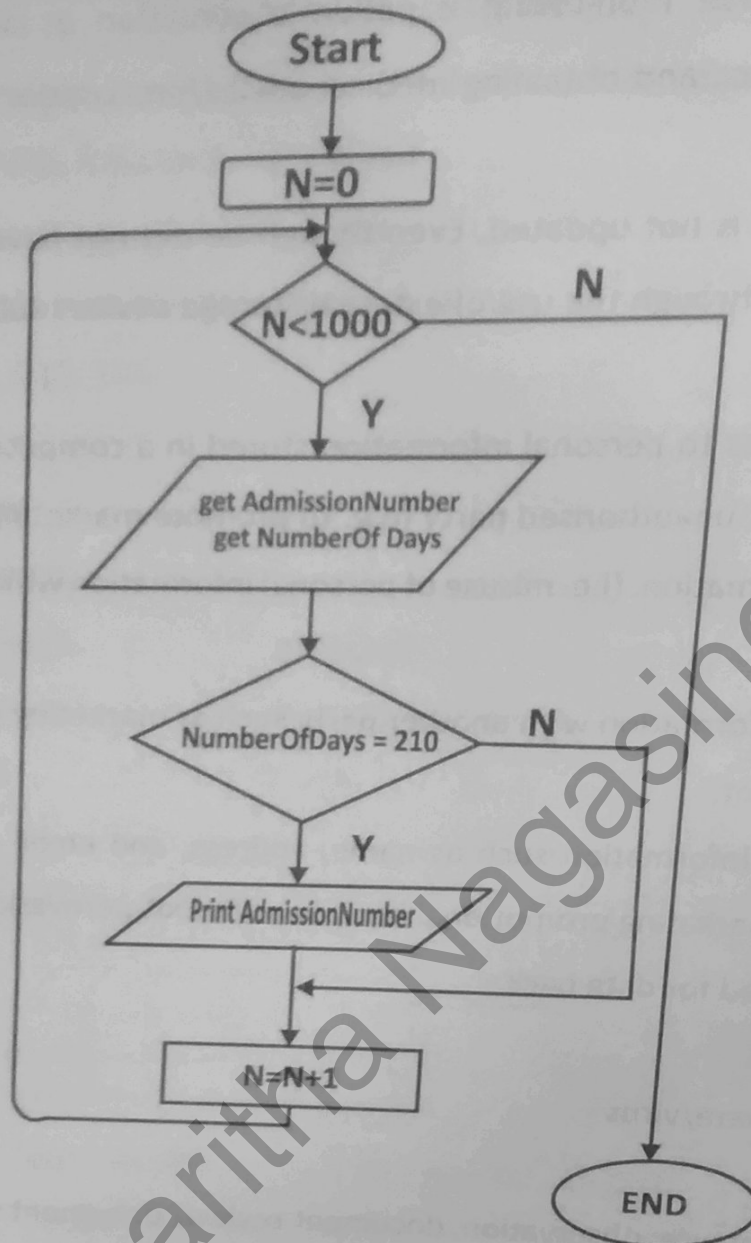6. i). a).
1 – Head	2 – Center	3- H1	4- IMG	5- HR
6- P	7- H2	8- UL	9- L1	10- HREF

b).
1- web browser

2- URL

3- Web authoring software

4- Web server

5- modem

7. i)

```
                    ┌──────────┐
                    │  Start   │
                    └────┬─────┘
                         │
                    ┌────▼─────┐
                    │   N=0    │
                    └────┬─────┘
                         │
        ┌────────────────▼────────┐
        │                         │
        │         ◇ N<1000 ◇──── N ──────────┐
        │              │ Y                   │
        │    ┌─────────▼──────────┐          │
        │    │ get AdmissionNumber│          │
        │    │ get NumberOf Days  │          │
        │    └─────────┬──────────┘          │
        │              │                     │
        │    ◇ NumberOfDays = 210 ◇─── N ────┤
        │              │ Y                   │
        │    ┌─────────▼──────────┐          │
        │    │ Print AdmissionNumber│        │
        │    └─────────┬──────────┘          │
        │              │◄────────────────────┘
        │    ┌─────────▼──────────┐
        │    │      N=N+1         │
        └────┴─────────┬──────────┘
                       │
                  ┌────▼─────┐
                  │   END    │
                  └──────────┘
```

ii).   A = 0

        B = 35, total_students

        C = train_count

        D = train_count

        E = By bus