PAPER 1

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

PAPER 2

1)(i). E9 -> 1110 1001 -> 011 101 001 -> 351

(ii) R = (P or Q) AND (P NAND Q)

R = (P or Q) AND (NOT (P AND Q)

$R = (P+Q) . \overline{(P.Q)}$

$R = (P+Q) \overline{(PQ)}$

$R = (P+Q) . \overline{(PQ)}$

$R = (P+Q) \overline{(P.Q)}$

iii) a) Better or improve performance / fewer maintenance issues /

Higher reliability / Better security / Anywhere anytime access

b) Constant internet connection required / Depend on 3rd party / Security issues / Privacy

issues

iv)   Input   – One of (PIN number/amount to withdraw/card details)

           Processing   – (update account balance / compare/ check amount and balance /

                             validate PIN)

           Output   – (Account balance / cash/ money / receipt / card)

v)   A – USB,   B – Audio port   C- RJ45   d- HMDI

vi)   1- B/C/ B and C   2- H   3-F   4-I

vii)   P- www   Q-FTP   R- DNS S- HTTP

viii)   W- 4   X- 1   Y-2   Z-3

2) i)   A-Spyware   B- Phishing   C-Spam   D-Computer worm

ii)   a)   Reuse/ recycle

          b)   Correct eye level

                Eye at correct distance from the screen

                Vertical position of legs

                wrist straight with keyboard

                straight shoulders, straight back, straight head

          c)   Providing confidential data to a third party without permission

                violating privacy

          d)   Take backup of the data and keep backup at a different geographical location

                Backup to an online/cloud storage

3) i)   a) – Web host   b) Content management software   c) web content   d) maintenance

ii)   1- title 2- h2   3- h2   4- font 5- src   6- p   7-justify   8-href

4) i)   =average(B4:B15)

         Or Function 1- average,   cell 1- B4,   cell2- B15

ii)   =B15-B14 or Sum(B15-B14)

iii)   =B4-B3 or Sum(B4,b3)

iv)   Bar chart, line chart, column chart

v)   A4:A15 or B4:B15

5) i)   I_ID Instrument (Table)

         S_ID Student (Table)

ii) a) Instrument (Table)

b)

1004	Drum	02/12/2016
1005	Drum	02/12/2016

iii) a) Student (Table), Borrowing (Table)

b)

Student Table

S006	Saman	

Instrument table

08/12/2016	1001	S006

6) i) a) Observation

document review

interviewing

questionnaire

survey

prototyping

b) 1) Final product is available only at end of the process,

not possible to change requirements,

all requirements should be identified at start,

unable to go back to previous phase

2- Iterative, spiral, prototyping

c) 1- Parallel/Pilot
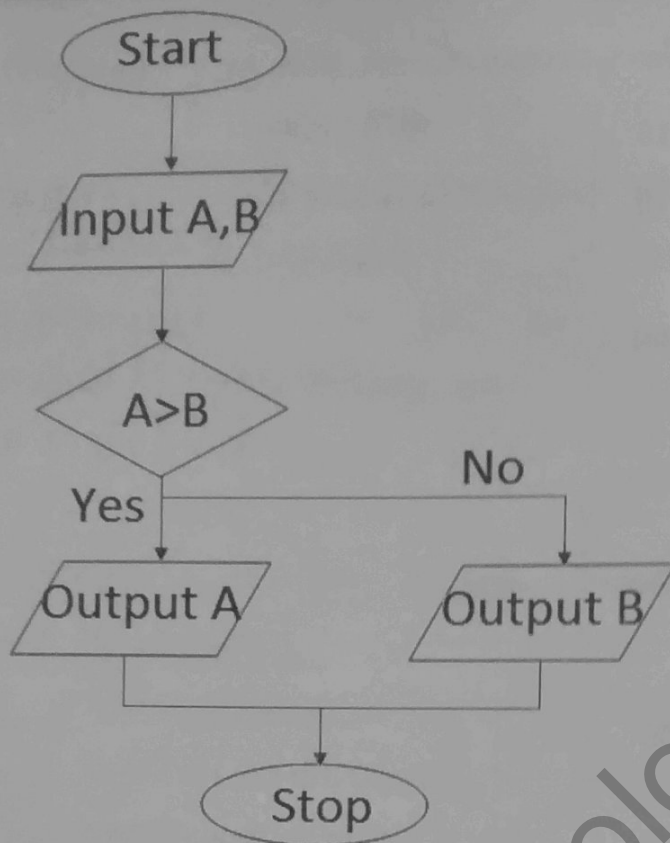
2- Safer/ less risky approach

ii) a) Save time/ save travelling cost

b) Lack of face to face interaction/ need for an internet connection, high initial and/or maintenance cost/ need for technical support

c) email is the most suitable. Instant messaging services like Skype, Viber, WhatsApp are other options

d) Social media/ SMS/ Wikis/forums/online chatting/tele-conferencing/ Instant Messaging

7) i)

ii)
A – Count <=100

B – Input X

C- Max =X

D- Output Max