GRADE 11 MOCK

ANSWER KEY

Question 1 (A)

Plotter	Output
Joystick	Input
OCR	Input
Printer	Output
Speaker	Output
Microphone	Input

[6 marks]

Question 1 (B)

i.   Web Camera
ii. MICR
iii. Barcode Reader
iv. OMR

[4 marks]

Question 2 (A)

Speaker   The purpose of speakers is to produce audio output that can be heard by the listener and she needs to hear from the staff in order for communication to be effective.   [2 marks]

Question 2 (B)

i.   A Dot Matrix as opposed to laser printer

To print a cash receipt - dot-matrix is a low cost and maintenance printer, it is most suitable to use as laser is more expensive. It is good to have a duplicate of a receipt and dot matrix is designed specifically to use continuous paper in duplicates of triplicates.   [2 marks]

ii. A plotter as opposed to a printer
To print a large poster – a regular printer cannot hold an A0 paper, as the plotter
[2 marks]

iii. A magnetic Tape as opposed to a flash (USB) drive

To back up data - Magnetic tape is a cheap medium for storing great quantities of data.
[2 marks]

iv. A joystick as oppose to a mouse
To control/play a game - specialized peripheral for gaming, it is easier to control/or navigate since games require a quick response front the user.   [2 marks]

3. A

Divisor	Dividend	Remainder
2	42	0
2	21	1
2	10	0
2	5	1
2	2	0
2	1	1
	0	

2

Ans : 42_{10} => 101010   **1**   [3 marks]

(B)

8	8	2	1
1	0	0	1
8x1	0	0	1x1
8 + 0 +0+ 1			

1

Ans: $1001_2 = 9_{10}$ **1**   [2 marks]

(c)   1110   [1 mark]

(d)   P is 1010000   is 80.   U is 5 letters away from P. So, 80 + 5 is 85.

          The as ASCII code for 85 is 1010101_2 [4 marks]

4. (i)   **Batch processing** - Since reports are done at a set period and generated based
          on data and information in the system. Batch processing are transactions that are
          processed in a group or batch as opposed to individually.

     (ii)   **Timesharing** – ATM or RENWEB is most suitable when there is need to
     improve   productivity in any organization. Report system enables all teachers to
     access the system at the same time.

     (iii)   **Real-time** is most suitable when the user requires an immediate response,
          for example, when ordering and making payment for goods online, or
          purchase newspaper online.

Question 4 B

(i)	8 Gigabytes
(ii)	SATA
(iii)	Windows 10
(iv)	Touchscreen
(v)	Web camera, Keyboard, Microphone, Touchscreen

Question 5 A

(i)	WI-FI
(ii)	Point-to-Point
(iii)	Half-duplex
(iv)	Intranet
(v)	Software piracy
(vi)	Broadcast

Question 5 b

DVD Advantage   -   Mass storage capacity, Sound and picture is excellent

Disadvantage -   Easily broken

External Hard drive - Advantage – Mass storage capacity than DVD, it is is portable

Disadvantage – Likely to overheat, it can easily break by dropping it

Question 6 A

(i)	**Data is prone to theft** – unauthorized personnel can steel and manipulate data leading to identity theft. Data can become distorted and destroyed
(ii)	**Filing Cabinets** – Locks, fireproof/waterproof, and storage in a secured room
	Computer Systems - Antivirus program to detect and clean virus; Password

Question 6 B

Recovery   -   The occurrence of power outage or power-down of computer while work on data which was unsaved.

Archiving -   Preserving aging data. For example, a bank storing transactions completed in 2010.

Back-up -   Preserving current data, such as transactions completed in March 2018 when a system is unreliable

Question 7 A

(i)   Italics , Uppercase, Underline, justification/alignment
(ii)   Right alignment
(iii)   Header

Question 7 B

(i)   Mail Merge
(ii)   Title, Firstname, Lastname
(iii)   <<Title>> << Firstname>> <<Lastname>>

Question 8 A

a) = B2 *C2
b) Positioned mouse pointer to the bottom right of cell D2 and drag down to D8 to **auto fill**
c) i) Cost per item   ii) Descending

Question 9

                (.5)   (.5)   (.5)

a) i) To **accept *weight and year*** and **print "Perfect"** if **the criteria is met**; otherwise, **print "Not fit"** (.5)

    ii) Real

b) Example 1:   Any data that is not of real or integer.
    Example 2:   Any data that is not an integer or outside of the range of a year
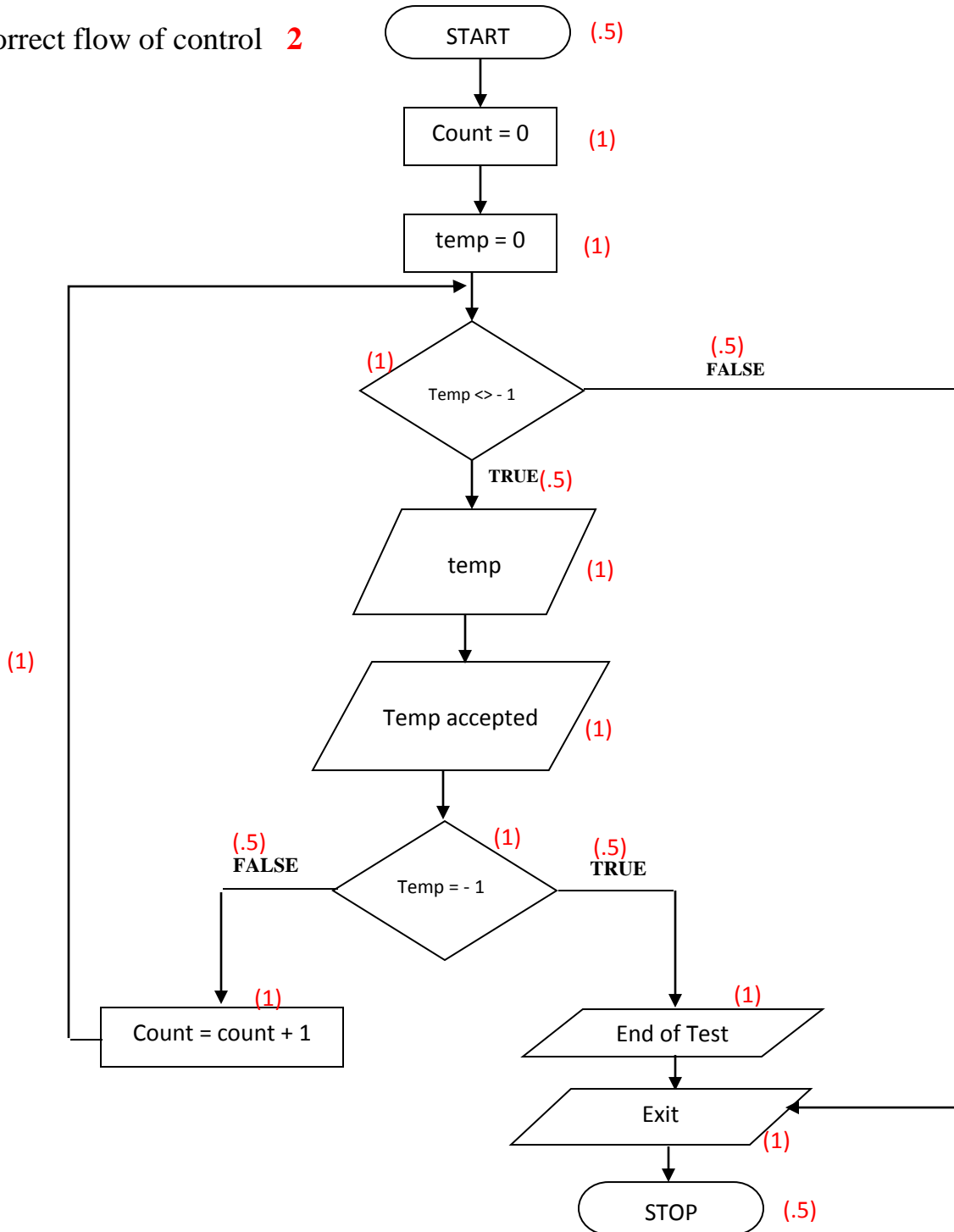
c)

PERFECT	PERFECT	.5 each + extra 1 mark
	PERFECT	
	PERFECT	

Question 10

Correct flow of control **2**

START (.5)

Count = 0 (1)

temp = 0 (1)

(1) Temp <> - 1 — FALSE (.5)

TRUE (.5)

temp (1)

Temp accepted (1)

(1) Temp = - 1

(.5) FALSE

(.5) TRUE

Count = count + 1 (1)

End of Test (1)

Exit (1)

STOP (.5)

(1)

Question 11 A

    (i) 45

    (ii) Class 2

Question 11B

    (i) Class[3]:= 63;

    (ii)TOTAL : = class[1] + class[2] + class [3] + class [4];

Question 12

    (i)   Cost: array **[1..8]** of real;   [2]

    (ii)   While (week < 5) **DO**
                Week **:=** week + 1;   [2]

    (iii)   Const interest = **0.25**;   [2]

    (iv)   Repeat
                   Write (Ans);   [2]
                     Ans **:=** Ans + 1; [1]
               Until Ans **<= 5**;   [1]