# G.C.E. (Ordinary Level) - Grade 10 Practice Test 2016

				Inf	formati	ion & (	Commı	unicatio	on Techr	nology			
						Ansv	wers -	Part I					
1	(3)	7	(4)	13	(3)	19	(2)	25	(2)	31	(3)	37	(3)
2	(2)	8	(3)	14	(2)	20	(1)	26	(2)	32	(2)	38	(2)
3	(4)	9	(3)	15	(2)	21	(4)	27	(3)	33	(2)	39	(4)
4	(ALL)	10	(3)	16	(3)	22	(3)	28	(2)	34	(4)	40	(3)
5	(4)	11	(2 or 3)	17	(2)	23	(4)	29	(3)	35	(2)		
6	(4)	12	(3)	18	(2)	24	(1)	30	(2)	36	(3)		

## Answers -part II

1.

a. 562<sub>oct</sub>

 $8^{2} X5 + 8^{1} X 6 + 8^{0} X 2$ 64 X 5 + 8 X 6 + 1 X2 320 + 48 + 2 370 <u>001101110000</u>

0111

0011

0

0000

ROM

- \_\_\_\_\_
- <u>RAM</u>
   Volatile erased when power is switched off
   Stores data temporarily
   Called as the working memory
- c. capacity of the storage device capacity in bits

= 2400 GB= 2400 X 2<sup>10</sup> X 2<sup>10</sup> X 2<sup>10</sup> X 2<sup>10</sup> X 8 = 2400 X 2<sup>10</sup> X 2<sup>10</sup> X 2<sup>10</sup> X 2<sup>3</sup>

- = <u>2400 X 2<sup>33</sup></u>
- d. <u>first generation</u>
  major hardware technology used is
  Vacuum tubes
  Punch cards are used for input,
  output and store data
  High power consumption
  Expensive

<u>Third generation</u> major hardware technology used is ICs Punch cards are used for input, output and store data Low power consumption Less expensive

Non Volatile - not erased when

Does not store data temporarily

power is switched off

Used to store BIOS

- e. 1. Addiction to surf the net, play computer games, view unsuitable material
  - 2. Building unsuitable friendship through social media
  - 3. Getting health problems due to long usage of computers
  - 4. People without social skills
- f. A universal gate is able to realize all possible combinational logic functions./ A universal gate is a gate which can implement any Boolean function without need to use any other gate type.

Universal gate = NAND or NOR

- g. Keep the font size at about 32 points or more
  Keeping the number of lines per slide between 6-9
  Correct use of grammar and spelling
  Using colours, animation and images effectively
- i. 1. Backup software.
  - 2. Anti-virus software
  - 3. Screen savers

j. 1. a solid state drive(SSD) boots faster,

2. launches apps faster

3. runs apps faster,

4. transfers files faster than a hard disk drive.

# 2.

Data types:

- i. supNum text iii. Currentstock number
- ii. Initials text iv. U

iv. Unitprice – currency

1 mark X 2

b. primary key fields with corresponding tables

item - ItemID

stock - supNum, ItemID

Supplier-supNum

- c. Primary key of the item table is ItemID. When it is included in the stock table it is called as a foreign key. It helps to create a relationship between the item table and the stock table.
- d. stock table

P									
С.	s009	Perera	W.T.	No.4, School road, Katugastota					

#### **3.** .

a.	Any of the following hardware devices.							
	Barcode scanner Digital still camera							
	Digital video camera Fingerprint scanner							
b.	Barcode scanner - scan ID card to register when entering/leaving the lab							
Digital video camera - to record who is doing what in the lab								
	Fingerprint scanner - to identify the users who entered/left the lab							
	Digital still camera - to produce photos for the ID							
c.								
	i. bus topology							
	ii. serial data transmission method							

- iii. A server is the machine which provides services to the client computers in a computer network.
- iv. LAN-Local Area Network

## 4.

- a. = C17 ^ 2
- b. Click C17 1 mark

Move the mouse pointer to the bottom right hand corner of C18

When you see fill handles drag it up to N18

c. = 3 \* C17 -

= C17\*3

both are correct

d. =C18 - C19 +5

e. a in B17

y in B20

f. XY scatter

# 5.

- a. WordArt
- b. insert pictures

Select the location of the picture from the insert picture dialog box

Select the picture file ----- Click Insert

- c. Bold ,Italic
- d. D is a hyperlink

Ctrl + K.

e. Use any one of the following.

• Click F7

• Review ----- click

ABC Spelling & Grammar

- **6.** inputs
- D = whether the plants are dry or not (dry=1)
- L = whether it is dark or not (dark=0)
- M = manual switch (switch on=1)
- Output = F



