



Grade 13

## G.C.E. (A/L) PRACTICE TEST 2017

## Information & Communication Technology I

Answers

1	3	6	2	11	4	16	2	21	all	26	5	31	5	36	3	41	2	46	1
2	2	7	4	12	4	17	4	22	4	27	3	32	2	37	4	42	4	47	2
3	4	8	2	13	1	18	5	23	4	28	4	33	5	38	3	43	5	48	4
4	1	9	4	14	3	19	4	24	3	29	3	34	2	39	2	44	4	49	5
5	5	10	1	15	2	20	4	25	5	30	1	35	5	40	1	45	5	50	4

## Information & Communication Technology II Part A

1.	i.	B2C	(1 mark)
		Nayana is the consumer.	(1/2 mark)
		She has purchased a wrist watch through a web site( which sells products).	. ( <b>1/2 mark</b> )
		This is a B2C transaction.	(1 mark)

- ii. Nayana has used her to pay for the wrist watch, so there is a risk of stealing her credit card details –security issue (2 marks) risk of using credit card details to steal personal details –privacy issue (2 marks)
  iii. Using a paypal like service to carry out the transaction. (1 mark)
  iv. 1. Global customer base (1 mark)
- 2. Ability to advertise 24X 365 hours

## **2.** i.

<style type="text/css"> h2{ color: blue; text-align:centre;</th><th>(1 mark) (1 mark)</th></tr><tr><td>}</td><td></td></tr><tr><td><pre>P {font-family:"Comic Sans";</pre></td><td>(1 mark)</td></tr><tr><td><pre>font-size:20px;</pre></td><td>(1 mark)</td></tr><tr><td><pre>font-color:red;</pre></td><td>(1 mark)</td></tr><tr><td>}</td><td></td></tr><tr><td></style> <td></td>	
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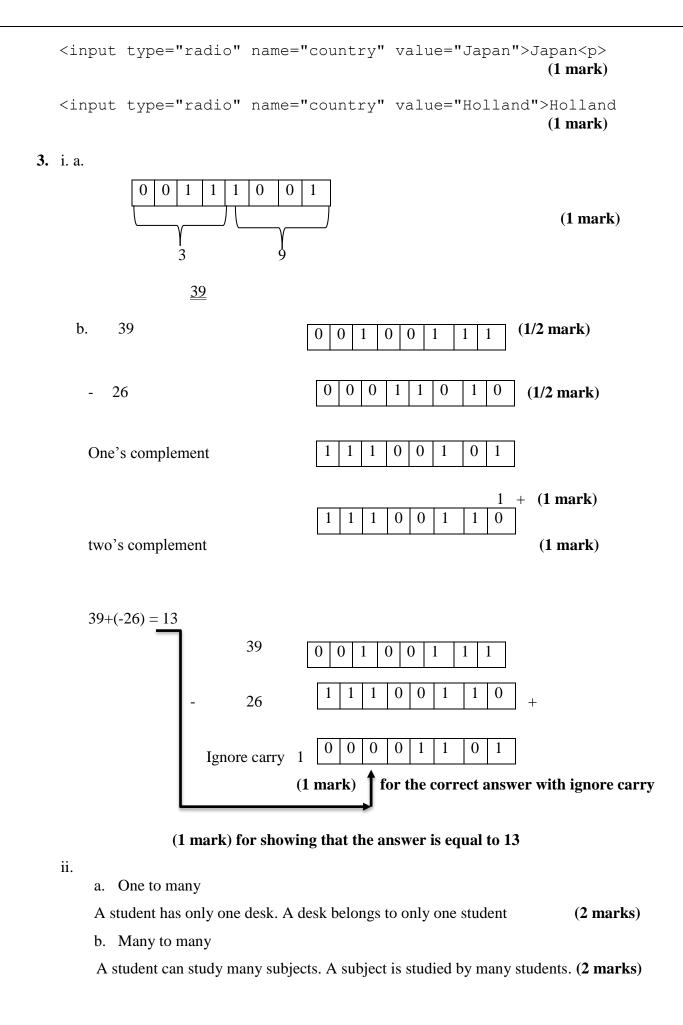
<style type="text/css"> with </style>

(1 mark)

(1 mark)

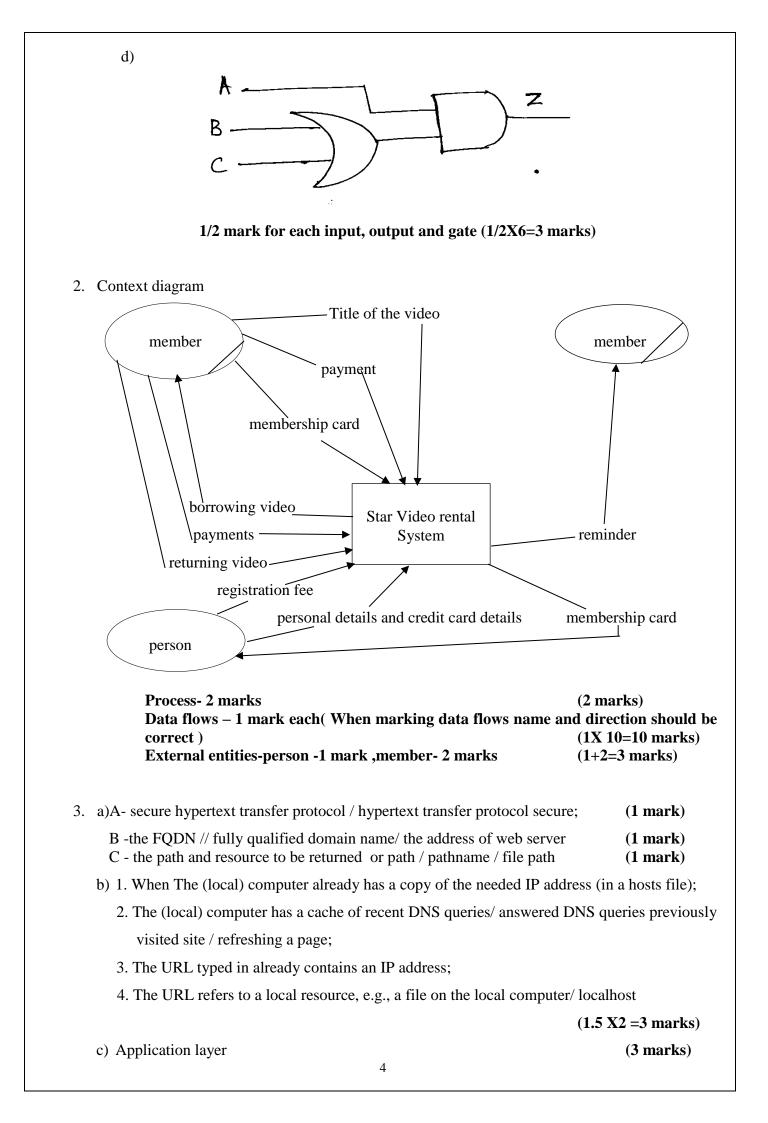
ii. <h2>Select a Country you love to travel!</h2> or (1 mark)
 Select a Country you love to travel!

<input type="radio" name="country" value="India">India
 (1 mark)

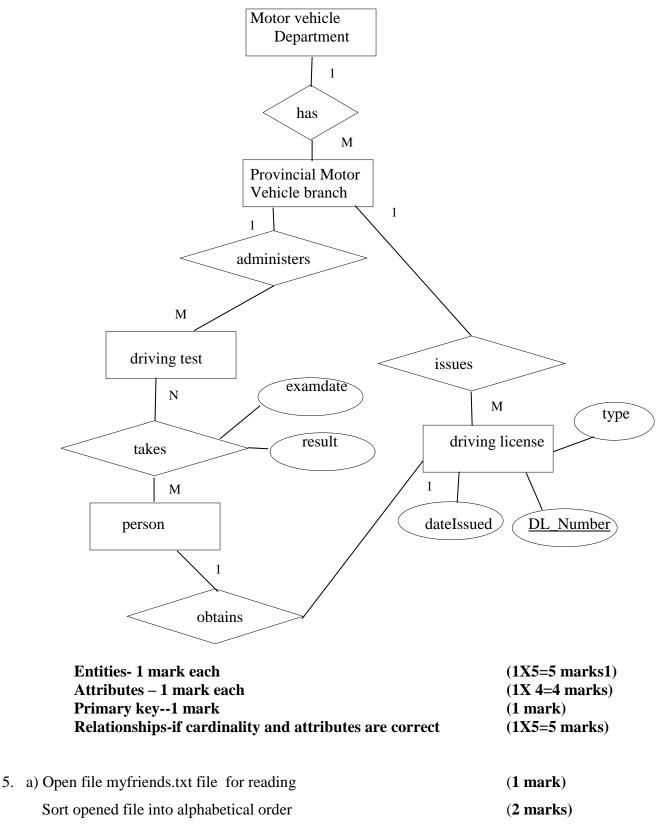


4. i. ['monkey', 'donkey', 'cat', 'rat', 'deer', 'rabbit', 'elephant', 'cow'] (2 marks)

monkey		(1/2 mark)
donkey		(1/2 mark)
COW		(1 /2 mark
elephant		(1 /2 mark
ii. No.		(1 mark)
0		(2 marks)
4		
5 1		
4		
5		
iii. Jack Lack		(3 marks)
Mack Nack		
Pack Rack		
		Part B
1. Inputs are labelle		
five rupee coins (	slot A) - A	(1/2 mark)
one rupee coins (	slot B) - B	( <b>1/2 mark</b> )
two rupee coins (	slot C) - C	(1/2 mark)
a) truth table	<u> </u>	(1/2 mark)
	A B C Z	
	0 0 0 0	1
	0 0 1 0	
	0 1 0 0	-
	0 1 1 0	(1/2 mark) X 8
	1 0 0 1	
	1 0 1 1	
	1 1 0 1	
	1 1 1 1	
b) $Z = A.\overline{B}$	$.\overline{C}$ +A. $\overline{B}$ . C +A.B.	+A.B.C (1/2 mark)X4 + 1 mark for
complete	expression	
	C +A.B. $\overline{C}$ +A.B.	(3 marks)



- d) To fetch different parts of the web page that also include a URL /To fetch a needed image /video / javascript / css / resource; (3 marks)
- e) Port that is temporarily assigned / only exists for duration of a connection; /Port number automatically allocated /assigned from the TCP/IP stack; (3 marks)
- 4. Entity Relationship diagram.



Open another file for writing Write the sorted names back to another text file	(2 marks) (2 marks)			
Close both files	(1 mark)			
b)				
x=open("myfriends.txt","r")	(1 mark)			
<pre>str = x.read();</pre>	(1/2 mark)			
names=str.split();	(1 mark)			
names.sort();	( <b>1/2 mark</b> )			
sf=open("sortedfriends.txt","wb")	(1 mark)			
sf=names	( <b>1/2 mark</b> )			
for index in range(len(sf)):	(1 mark)			
sf.write(sortedf[index]+" ")	(1 mark)			
sf.close();	( <b>1/4 mark</b> )			
x.close();	( <b>1/4 mark</b> )			

6.

a) 1. The system shall be able to read the smart card.	(3 marks)
2. The system shall be able stop the bus at the relevant destinations.	(3 marks)
b) 1. The system shall be able to calculate the bus fare correctly.	(2 marks)
2. The system shall be able to deduct the bus fare correctly from the smaller	art card.(2 marks)

c) 1. This system only has 12 destinations. But people may need to be stopped at more destinations. Therefore increasing the number of destinations should be considered.
2. The passenger has to key in the destination number in this system. But if the passenger is given the facility to use a GUI which gives a map, he or she can indicate the destination. (by touching/using a mouse). It will be more user friendly. (2.5 marks X 2=5 marks)