



May 2015

Fundamental IT Engineer Examination (Afternoon)

Answers and Marks(in blue)

Q1

Subquestion 1

2	A	f)	[6]	[1]	[2]	[3]	[4]
2	B	e)	[5]	[6]	[1]	[2]	[4]
2	C	e)	9				

Subquestion 2

2	D	d)	The 3 data blocks out of 8 will stay in the data buffer permanently ...
2	E	a)	For the first 5 data blocks, ... For the next 3 data blocks, ...
2	F	b)	For the first 5 data blocks, ... Similarly, ...

Q2

Subquestion 1

2	A	d)	Subject
2	B	d)	SubjectID
2	C	b)	MarksID

Subquestion 2

2	D	g)	$SUM(Marks * Percentage) / 100$
2	E	c)	Student.StudentID = Marks.StudentID AND Marks.SubjectID = MarksCategory.SubjectID AND Marks.MarksID = MarksCategory.MarksID
2	F	d)	Student.StudentID, StudentName

Q3

Subquestion 1

- 3 A c) User A and User D
- 3 B d) User C

Subquestion 2

- 3 C b)

0.0.0.0	0.0.0.0	10.10.2.254
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- 3 D c) http://www.itpec.org was not accessible and
http://64.22.66.88 was accessible

Q4

Subquestion 1

- 2 A c) Server sends a copy of the SSL certificate to the browser
- 2 B b) Browser verifies the certificate and
sends an acknowledgment message to the server
- 2 C d) Server sends a digitally signed acknowledgement to the browser

Subquestion 2

- 1.5 D a) 93.184.216.119
- 1.5 E b) 192.168.1.103

Subquestion 3

- 3 F c) (1), (2) and (4)

Q5

Subquestion

- 2 A d) South
- 2 B a) ????
- 2 C e) West
- 2 D c) North
- 2 E a) -0.1
- 2 F d) 100.1

Q6

Subquestion 1

- 2 A a) $2 \times i$
- 2 B b) $2 \times i + 1$

Note: Answers for A and B can be exchanged.

Subquestion 2

- 3 C b) 1
- 3 D c) 2
- 3 E f)

7	5	3	1
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- 3 F e)

5	1	3
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Subquestion 3

- 4 G c)

8	7	6	3	5	2	4
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Q7

Subquestion

- 3 A a) strcpy(&source[index], rest_str)
- 3.5 B a) insert(source, str, index)
- 3.5 C c) pos(source, str)
- 3 D b) strcpy(rest_str, &source[index])
- 3.5 E b) find_len = (int)strlen(to_find)
- 3.5 F c) substring[find_len] = '\0'

Q8

Subquestion

- 4 A d) Comparable<Player>
- 4 B f) public abstract
- 4 C h) public static
- 4 D a) Math.abs(player1.getChoice() - player2.getChoice())
- 4 E c) collections