




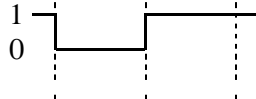
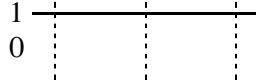
October 2014

Fundamental IT Engineer Examination (Afternoon)

Answers and Marks(in blue)

Q1

Subquestion 1

2	A	b)	$Q = 0$ and $Q' = 1$
3	B	a)	
2	C	b)	
2	D	d)	

(Note) Answers for C and D can be exchanged.

Subquestion 2

3	E	b)	<table border="1"><tr><td>0</td><td>0</td><td>1</td><td>0</td></tr></table>	0	0	1	0
0	0	1	0				

Q2

Subquestion

2	A	d)	FFFFh
2	B	b)	16
3	C	h)	7300h
2	D	d)	3
3	E	a)	0

Q3

Subquestion 1

2 A c) Course

2 B d) Exercise

(Note) Answers for A and B can be exchanged.

Subquestion 2

2 C c) CourseExercise.AverageGrade

3 D b) CourseExercise.ExerciseID = Exercise.ExerciseID

3 E d) Exercise.SubjectID = :SubjectID

(Note) Answers for D and E can be exchanged.

Q4

Subquestion

2 A f) 255.255.255.0

2 B c) 192.168.1.254

2 C b) 1

2 D d) 202.2.2.2

2 E e) 203.151.20.61

2 F f) OUT, *, *, *, 25, TCP, Drop

Q5

Subquestion

2 A b) MAC address

2 B e) SSID

2 C g) SSL

2 D e) WLAN

2 E d) xx:xx:xx:A4:26:F0 or xx:xx:xx:F0:37:DB

2 F b) Office

Q6

Subquestion

3 A b) $\text{length}(m) \leq 1$

- 3.5 B a) `k: middle+1, length(m), 1`
- 3.5 C b) `length(left) = 0 and length(right) = 0`
- 3.5 D a) `first(left) ≤ first(right)`
- 3.5 E d) `result ← result + first (right)`
- 3 F a) `left ← rest (left)`

Q7

Subquestion 1

- 3 A c) `i <= j`
- 3 B a) `val &= 1`
- 3 C b) `val &= 2`
- 3 D a) `str[i] != ' ' && str[i] != '\0'`
- 4 E c) `sIndex = eIndex + 1`

Subquestion 2

- 4 d) 9

Q8

Subquestion 1

- 4 A b) Integer, Tension
- 4 B b) Tension
- 4 C d) `sbp >= high[i] || dbp >= low[i]`

Subquestion 2

- 2 D e) You must input only integers
- 3 E c) BLOOD PRESSURE MONITOR

SBP: | DBP:
Your blood pressure is PREHYPERTENSION
Practice a healthy lifestyle.
Re-measure BP monthly over next 3 months.
If high levels (>=140/90) persist, consult doctor.

- 3 F a) BLOOD PRESSURE MONITOR

SBP: | DBP:
Your blood pressure is MODERATE_HYPERTENSION

Practice a healthy lifestyle.
Re-measure BP monthly over next 4 months.
If high levels ($\geq 160/100$) persist, consult doctor.
