



October 2015

Fundamental IT Engineer Examination (Afternoon)

Answers and Marks(in blue)

Q1

Subquestion 1

3 e) (1) SHA-1, (2) RSA algorithm, (3) Decompression algorithm

Subquestion 2

2 A h) Session key

2 B e) Receiver's public key

2 C d) Receiver's private key

Subquestion 3

3 D b) 6 kB

Q2

Subquestion

3	A	c)		6		6		14		
3	B	b)		8		8		14		
3	C	c)		P4		P1		P3		P4 P3
3	D	b)		9		0		14		

Q3

Subquestion 1

- 2 A e) Muscle_ID
- 2 B d) MG_ID
- 2 C d) Training_Schedule

Subquestion 2

- 3 D c) `AND Index.Index_ID = Index_Progress.Index_ID`
`AND Index_Progress.Date_Created`
`BETWEEN :FromDate AND :ToDate`
- 3 E c) `ORDER BY Index_Progress.Date_Created`

Q4

Subquestion

- 2 A d) 110
- 2 B c) 101
- 3 C b) 0.6
- 3 D g) 7.2
- 2 E c) 1100

Q5

Subquestion 1

- 2 A d) user
- 2 B a) applicant
- 2 C a) applicant
- 2 D a) Job application canceled
- 2 E b) Job application completed

Subquestion 2

- 2 d) Home → Update Profile → Register → Login

Q6

Subquestion

- 3 A b)
 - Dump(S, N)
 - $R \leftarrow \text{Next}(S, N)$
- 3 B c) 1, 0 that are found first
- 3 C c) before
- 4 D a) 0, 1, 1, 0, 1
- 3 E b) from 0 to 3
- 4 F b) 0, 0, 1, 1, 1

Q7

Subquestion 1

- 4 A c) `t[i].sortValue > t[j].sortValue`
- 4 B d) `t[i].mm * 60`
- 4 C b) `3600 - t[i].angle`
- 4 D f) `t[i].angle / 10.0`

Subquestion 2

- 4 E b) 552359

Q8

Subquestion 1

- 3 A c) `extends Person`
- 3 B b) `super(lastName, firstName, middleInitial, birthdate)`
- 3 C c) `super.toString()`
- 3 D b) `static String[] day`
- 4 E c) `day[e.getBirthdate().dayOfWeek()]`

Subquestion 2

- 4 F g) Sunday