ITPEC 15th FE Morning Exam -- October 2013

As of 2013-08-30

1. Basic Theory

QFM KL	#Q	Question ID	Category	Theme	Correct answer
S02	1	FEA113SMM01	1.1.1	Radix conversion & shift operation	c
N08	2	FEA113APH10	1.1.1	Discrete mathematics (Exclusive OR)	b
N09	3	FEA113ATH03	1.1.2	Mixture of two acid solutions	a
	4	J-FE-2012S-Q3	1.1.2	Adjacency matrix and graph	d
N12	5	FEA113AMY01	1.1.3	Predicate logic	d
N13	6	FEA113ATH05	1.1.4	Data transmission time	d
S11	7	FEA112AMM02	1.2.1	Size of 3D array	a
S13	8	FEA112ATH03	1.2.2	Sorting algorithm (Merge sort & quick sort)	c
N28	9	FEA113AVN04	1.2.2	Binary search	c
N27	10	FEA113AVN03	1.2.2	Generate a random number with four different digits	d
	11	J-FE-2012A-Q8	1.2.5	Explanation of XML	a

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2. Computer System

QFM KL	#Q	Question ID	Category	Theme	Correct answer
	12	J-FE-2012A-Q9	2.3.1	Process sequence upon interruption	c
N39	13	FEA213AMN06	2.3.2	Memory (SRAM)	c
	14	J-FE-2012S-Q13	2.3.2	Description about cache memory	c
	15	J-FE-2009A-Q11	2.3.4	Explanation of USB	a
	16	J-FE-2012S-Q14	2.3.5	Explanation of plasma display	a
	17	J-FE-2012A-Q11	2.4.1	acceleration method of file access on multiple disks (striping)	c
	18	J-FE-2012A-Q13	2.4.1	Characteristic of 3-tier client/server system	a
S17	19	FEA213SVN01	2.4.2	Indexes or indicators of RAS	b
	20	J-FE-2012S-Q19	2.4.2	Expression for server processing time	d
S18	21	APA212AMN01	2.5.1	Job scheduling (Shortest job first)	b
	22	J-FE-2012A-Q18	2.5.1	Unused small segments of storage region (Fragmentation)	a
N48	23	FEA213ABD01	2.5.1	Memory management (Paging)	c
	24	J-FE-2012S-Q18	2.5.2	Explanation of benchmarking test	b
	25	J-FE-2012A-Q20	2.5.4	Module combining method upon program execution (Dynamic linking)	a
	26	J-FE-2012A-Q21	2.5.5	Software integrated development environment of OSS (Eclipse)	b
	27	J-FE-2012A-Q23	2.6.1	Sequential circuit with 2 stable states (Flip-flop)	c
	28	J-FE-2012S-Q25	2.6.1	Seven-segment LED lighting circuit	c
S19	29	FEA212AMN03	2.6.1	Logic circuit using a combination of NAND gates	b

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3. Technical Element

QFM KL	#Q	Question ID	Cate gory	Theme	Correct answer
S20	30	FEA313SPH01	3.07.1	Usability	d
	31	J-FE-2010A-Q28	3.08.1	Explanation of clipping in 3D graphics processing	a
N57	32	FEA313AVN01	3.09.2	Second normal form	a
	33	J-FE-2011S-Q34	3.09.2	Purpose of foreign key	b
	34	J-FE-2011S-Q30	3.09.3	SQL for salesperson names from sales record table	d
	35	J-FE-2012A-Q30	3.09.4	Unit of atomicity for DB update	c
N68	36	FEA313AMN03	3.09.5	Data warehouse	b
N69	37	FEA313AVN03	3.10.2	Unit of transmission in data link layer	b
S23	38	FEA311AMM10	3.10.3	Private IP address range (Class B)	c
	39	J-FE-2011S-Q37	3.10.2	Description of CSMA/CD	b
S24	40	FEA313SVN05	3.10.3	Application layer protocols	a
	41	J-FE-2010A-Q36	3.10.3	Routing information for routers	a
N85	42	FEA313AMM06	3.11.1	SQL injection	d
	43	J-FE-2012S-Q45	3.11.1	Directory traversal attack	d
N91	44	FEA313AMM07	3.11.2	Privacy policy	c
	45	J-FE-2012S-Q44	3.11.4	communication filtering by using ARP mechanism	a
	46	J-FE-2012A-Q41	3.11.4	Detecting method of Web contents falsification	b

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4. System Development and Operation

QFM KL	#Q	Question ID	Cate gory	Theme	Correct answer
S29	47	FEA412AMN02	4.12.03	UML class diagram (Association)	a
N100	48	FEA413ATH01	4.12.03	Data flow diagram	c
	49	J-FE-2011S-Q49	4.12.04	Explanation of white box test	b
S30	50	FEA413SMN01	4.12.04	Quality characteristics of software (Reliability)	d
N110	51	FEA413AVN04	4.12.05	Big bang test	a
N120	52	FEA413AMM05	4.12.10	Adaptive maintenance	d
	53	J-FE-2012S-Q50	4.13.1	Explanation of software reverse engineering	a

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5. Project Management

QFM KL	#Q	Question ID	Cate gory	Theme	Correct answer
	54	J-FE-2010S-Q51	5.14.1	PERT	b
	55	J-FE-2011S-Q54	5.14.5	Chart for quality problem (Pareto chart)	c
S32	56	FEA309APH06	5.14.4	Estimation of software development (FP method)	c

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6. Service Management

QFM KL	#Q	Question ID	Cate gory	Theme	Correct answer
	57	J-FE-2012A-Q49	6.15.1	Examination of operational test	d
	58	J-FE-2012A-Q55	6.15.2	Characteristic of one-time (big bang) migration	a
	59	J-FE-2012A-Q56	6.15.3	Target of problem management in ITILv3	d
	60	J-FE-2011A-Q57	6.16.1	SLA and downtime during service hours	b
	61	J-FE-2012A-Q57	6.16.1	Point to be checked in system audit for confidentiality of source code	a
	62	J-FE-2012A-Q58	6.16.1	Selection of audit subject	d

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7. System Strategy

QFM KL	#Q	Question ID	Cate gory	Theme	Correct answer
A33	63	APA713AMN01	7.17.2	Business process reengineering (BPR)	d
	64	J-FE-2012A-Q63	7.17.3	Explanation of SaaS	a
	65	J-FE-2012A-Q65	7.17.1	Computerization cost corresponding to running cost	d
	66	J-FE-2012A-Q72	7.17.4	Explanation of digital divide	c

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8. Business Strategy

QFM KL	#Q	Question ID	Cate gory	Theme	Correct answer
N144	67	FEA813AMY04	8.19.1	Value chain analysis	d
	68	J-FE-2012A-Q69	8.19.1	Characteristics of the growth stage of the product life cycle	a
	69	J-FE-2012S-Q69	8.19.3	Example of BSC from the customer view	b
	70	J-FE-2012A-Q68	8.19.2	Price setting by cost plus method	b
	71	J-FE-2012A-Q64	8.20.1	Effectiveness of ROI on 4 cases	a
	72	J-FE-2012S-Q73	8.21.3	Characteristic of RFID	b
	73	J-FE-2012A-Q74	8.21.3	Long tail	c
	74	J-FE-2012S-Q72	8.21.2	Comparison of production methods	b
	75	J-FE-2012S-Q71	8.21.2	Processes of MRP	d
	76	J-FE-2012S-Q70	8.21.4	Reason for using flash memory in one-chip microcomputer	c

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9. Corporate and Legal Affairs

QFM KL	#Q	Question ID	Cate gory	Theme	Correct answer
S34	77	FEA912AMM01	9.22.1	Functional organization	b
S36	78	FEA912APH03	9.22.2	Expected value principle	d
S38	79	FEA912AMM08	9.22.2	Control chart (the Rule of Seven)	c
	80	J-FE-2012A-Q77	9.22.2	Negative relation in scatter diagram	b

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