

23rd ITPEC FE Morning Exam -- April 207

1.Basic Theory

	Category	Theme	Correct Ans
1	1.1.1	Binary arithmetic (Inversion of MSB and LSB)	b
2	1.1.1	Logical expression	c
3	1.1.2	Probability of selecting even-numbered cards	a
4	1.1.2	Function, Counting (Set)	c
5	1.1.3	Reverse polish Notation	c
6	1.2.1	Insertion in a binary search tree	b
7	1.2.2	Flowchart	c
8	1.2.1	Two-dimenaional integer array	d
9	1.2.2	Recursive function	c

2.Computer System

	Category	Theme	Correct Ans
10	2.3.1	Addressing mode	b
11	2.3.1	MIMD	a
12	2.3.2	Memory interleaving	a
13	2.3.4	Role of device driver	b
14	2.3.5	Disk fragmentation	b
15	2.4.1	Grid compuring	a
16	2.4.2	Failure rate calculation of RAID 0 system [APA213ATH02]	c
17	2.4.2	Desciption of MTBF and MTTR	c
18	2.5.1	Round Robin process scheduling	a

19	2.5.1	Virtual memory (LRU)	d
20	2.5.4	Quadruplet used for syntactic analysis	a
21	2.5.3	Backup	b
22	2.5.4	Module combining method upon program execution (Dynamic linking)	a
23	2.6.1	Characteristic of DRAM	c
24	2.6.1	Circuit whose result is 1	c
25	2.6.1	Logic circuit for a light with two switches (XOR)	d

3. Technical Element

	Category	Theme	Correct Ans
26	3.08.1	Explanation of clipping in 3D graphics	a
27	3.09.1	Relational database	d
28	3.09.1	Explanation of schema in RDBMS	c
29	3.09.2	Database normalization	c
30	3.09.2	Conceptual design	a
31	3.09.3	SQL of Shipment record	b
32	3.10.1	IP addressing	b
33	3.10.2	OSI model	b
34	3.10.3	IP Address Class	b
35	3.10.3	[Information Security and Risk Management] DNS	b
36	3.10.4	Network management tools (netstat)	a
37	3.11.1	[Cryptography] (Asynchronous encryption)	d
38	3.11.1	Security Threats (or Security Perils) (Spoofing)	c
39	3.11.1	[Information Security and Risk Management] Social engineering	d
40	3.11.1	[Information Security and Risk Management] Man-in-the-middle attack	b

41	3.11.1	[Information Security and Risk Management] One-time pad	c
42	3.11.1	Security threat (Trojan horse)	b
43	3.11.2	[Information Security and Risk Management] Restore point objective	b
44	3.11.3	Penetration test	c
45	3.11.5	Application Security (Buffer Overflow)	d
46	3.11.5	Network Security (VPN)	d

4.System Development and Operation

	Category	Theme	Correct Ans
47	4.12.03	UML state diagram (Component)	d
48	4.12.04	Module design	d
49	4.12.05	Black box test (Test data)	c
50	4.12.07	Component Testing	b
51	4.13.1	[Information Security and Risk Management] Capability maturity model Integration	c

5. Project Management

	Category	Theme	Correct Ans
52	5.14.02	Activities in project integration management	c
53	5.14.04	Project Scope Management (Scope creep)	d
54	5.14.06	Arrow diagram (EFT and LST)	c
55	5.14.07	Cost Performance Index (CPI by EVM)	d

6.Service Management

	Category	Theme	Correct Ans
56	6.15.1	Service level management	d
57	6.15.2	Activities in service transition	d

58	6.15.3	Relationship between incident records and problem records	d
59	6.16.1	Activity of system auditor in charge of access control	a
60	6.16.1	Check point of system audit for software patch application	c
61	6.16.2	Segregation of duties regarding data entry	b

7. System Strategy

	Category	Theme	Correct Ans
62	7.17.1	Feasibility Assessment	a
63	7.17.2	UML used for visualization of business processes	c
64	7.17.1	"Four categories" of enterprise architecture	b
65	7.17.3	Explanation of EMS	c
66	7.18.3	Explanation of green procurement	a
67	7.18.3	RFI (Procurement planning and implementation)	d

8. Business Strategy

	Category	Theme	Correct Ans
68	8.19.1	System Strategy (Leader's strategy)	d
69	8.19.2	Business Strategy (Pull strategy in marketing)	c
70	8.19.2	Business Strategy (PEST analysis)	a
71	8.21.1	Explanation of IoT	d
72	8.19.1	Explanation of benchmarking in corporate management	a
73	8.21.3	Explanation of long tail	d
74	8.21.2	Process of MRP	d
75	8.21.3	Reverse auction	c

9. Corporate and Legal Affairs

	Category	Theme	Correct Ans
76	9.22.1	Corporate and Legal Affairs (Matrix organization)	d
77	9.22.2	Linear Programming	b
78	9.22.3	Inventory Valuation Methods (FIFO)	a
79	9.22.3	Corporate and Legal Affairs (Net Present Value method)	a
80	9.23	What is not protected by "copyright and related rights" by TP	c