

系所:工管所、資管系

99 學年度碩士班暨碩士在職專班招生考試試題

科目:統計學(1)

### 1. 說明以下名詞:

- (a) (2%) 機率與機率密度函數 (probability density function)
- (b) (3%) 統計量與抽樣分配 (statistics and sampling distribution)
- 2. 兩隨機變數 X與 Y的聯合機率密度函數為 f(x,y) = cx, 0 < x < 1,0 < y < 1-x
- .(a)(3%) c 值應為多少?
- (b) (5%) 計算 P(X+Y>2/3 | X<1/4)
- (c) (10%) X與 Y的相關係數為何?如何解釋 X與 Y的關聯性?
- 3. (5%) X與 Y 為兩任意連續型隨機變數,證明 E(X+Y) = E(X) + E(Y)。
- 4. (6%)一卜式過程(Poisson process)單位時間的事件發生率為  $\lambda$ ,若兩相鄰事件發生間隔時間為隨機變數 Y,請用卜式分配推導出 Y的機率密度函數(p.d.f.)。
- 5. 分析計算以下問題:
- (a) (5%) 某批零件生產 20 件,其中 3 件為不良品,若隨機抽 5 件檢查,會查到不良品的機率為何?查到不良件數的期望值與變異數各為何?
- (b) (5%) 擲一對骰子 10 次,超過一次以上骰子和出現為7的機率為何?
- (c) (6%) 擲一對骰子 100 次,不到二十次骰子和出現為 7 的機率為何?
- 6. (20%) 收集某工作流程改善前後之數據如下表,假設改善前後之數據均符合常態分配, 在α=0.10下,請問這工作流程改善前後是否有差異?

改善前	17	11	14	13	16	14	18	17	13	16	15
改善後	8	12	11	7	8	10	9	11	13	12	11



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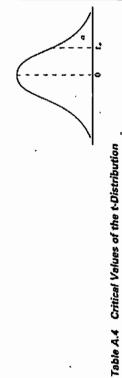
7.分別收集五臺機具四個相同時段的生產量,機具 A 為 850、850、900、1130,機具 B 為 300、600、450、750,機具 C 為 700、750、870、900,機具 D 為 770、550、620、930,機具 E 為 750、810、1250,1030。假設前述資料符合變異數分析的各項假設,α=0.05。

- (a) (10%) 請檢定五臺機具的生產量是否有差異。
- (b) (12%) 若四個時段的數據中,前兩個時段為日班的生產量,後兩個時段為夜班的 · 生產量,在此情況下,請檢定五臺機具的生產量是否有差異。
- (c) (8%) 請說明比較(a)與(b)後的結論。



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國立雲林科技大學 系所:工管所、資 99 學年度碩士班暨碩士在職專班招生考試試題 科目:統計學(1)



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•	0,40	0.30	0.20	0.15	0.10	0.05	0.025
_	0.325	0.727	1.376	1.963	3.078	6314	12.706
<b>N</b>	0.259	0.617	1,061	1.386	1.886	2.920	4,303
~	0.277	0.584	0.978	1.250	1.638	2.353	3.182
4	0.271	0.569	0.941	1.190	1.533	2.132	2776
٧,	0.267	0.559	0.920	1.15%	1.476	2.015	2571
9	0.265	0.553	9060	1.13	1,440	1.943	2,447
-	0.263	0.549	0.896	1.119	1.415	1.895	2.765
20	0.262	0.546	0,889	1.108	1.397	1.860	2,306
م	0.261	0.543	0.883	1.100	1.383	1.833	2262
2	0.260	0.542	0.879	1.093	1.372	1,812	2.238
=	0.260	0.540	928.0	1.088	1.363	1.796	2.201
2	0.259	0.539	0.873	1.083	1.356	1.782	2.179
=	0.259	0.537	0.870	1.079	1.350	1.771	2.160
7	0.258	0.537	0.868	1,076	 	1,761	2.145
22	0.256	0.536	0.866	1.074	135	1.753	2.131
91	0.258	0.535	0.865	1.071	1,337	1,746	2.120
2	0.257	HES-0	0.863	1.069	1.333	1.740	2.110
*	0.257	0.534	0.862	1,067	1330	17.	2.101
2	0.257	0.533	0.861	1.066	1.328	1.729	2093
ន	0.257	0.533	0.860	1.064	1.325	527.1	2.0%
17	0.257	0.532	0.859	1.063	1.323	1.721	2.080
ដ	0.256	0.532	0.858	1.061	1,321	1.717	2.074
n	0.256	0.532	0.858	1.060	1319	1.714	2.069
ន	0256	0.531	0.857	1.059	1.318	1.711	20%
x	0.256	0.531	0.856	1.058	1316	1.708	2.060
ន	0.256	0.531	0.856	1.058	1.315	1,706	2.056
z	0.256	0.531	0.855	1,057	1314	1.703	2.052
**	0256	0.530	0.855	1.056	1.313	1,701	2.048
23	0.256	0.530	0.854	1.055	1311	1.693	2.045
R	0256	0.530	0.854	1.055	1,310	1.697	2.043
\$	0.255	0.529	0.851	1.050	1,303	1.684	2.021
3	0254	0.527	0.848	1.045	12%	1.671	2000
22	0.254	0.526	0.845	1.041	1.289	1.658	1.98
B	0.253	0.524	0.842	1.036	1282	1,645	98.
1						1000	

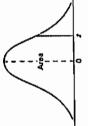


Table A.3	3 (continued)		eas Und	er the No	Areas Under the Normal Curve	9,			, ;   0	:
2	00*	10.	-02	.03	.04	.05	90.	.00	80"	60
0.0	0.5000	0.5040	0.5080	0.5120	0.5160	0.5199	0.5239	0.5279	0.5319	0,5359
0.1	0.5398	0.5438	0.5478	0.5517	0.5557	0.55%	0.5636	0.5675	0.5714	0.5753
27	0.5793	0.5832	0.5871	0.5910	0.5948	0.5987	0.6026	0.6064	0.6103	0.6141
63	0.6179	0.6217	0.6255	0.6293	0.6331	0.6368	0.6406	0.6443	0.6480	0.6517
ः <b>४</b> 0	0.6554	0.6591	0.6628	0.6664	0.6700	0.6736	0.6772	808970	0.6844	0.6879
50	0,6915	0.6950	0.6985	0.7019	0.7054	0.7088	0.7123	0.7157	0.7190	0.7234
90	0.7257	0.7291	0.7324	0.7357	0.7389	0.7422	0.7454	0.7486	0.7517	0.7549
0.7	0.7580	0.7611	0.7642	0.7673	0.77(4	0.7734	0.7764	0.77%	0.7823	0.7852
8.0	0.7881	0.7910	0.7939	0.7967	0.7995	0.8023	0.8051	8078	0.8106	0.8133
6.0	0.8159	0.8186	0,8212	0.8238	0.8264	0.8289	0.8315	0.8340	0.8365	0.8389
1.0	0.8413	0.8438	0.8461	0.8485	80580	0.8531	0.8554	0.8577	0.8599	0.8621
1.1	0,8643	0.8665	0.8686	0.8708	0.8729	0.8749	07.23	0.8790	0.8810	0.8830
22	0.8849	0.8869	0.8888	0.8907	0.8925	0.8944	0.8962	0868.0	0.8997	0.9015
-	0,9032	0.9049	9906'0	0.9082	0.9099	0.9115	0.9131	0.9147	0.9162	0.9177
Z	0.9192	0.9207	0.9222	0.9236	.0,9251	0.9265	0.9278	0.9292	0.9306	0.9319
1.5	0.9332	0.9345	0.9357	0.9370	0.9382	0.9394	0.9406	0.9418	0.9429	0.9441
1.6	0.9452	0.9463	0.9474	0.9484	0.9495	0.9505	0.9515	0.9525	0.9535	0.9545
1.7	0.9554	0.9564	0.9573	0.9582	0.9591	0.9599	0.9608	0.9616	0.9625	0.9633
81	0.9641	0.9649	0.9656	0.9664	0.9671	0.9678	0.9686	0.9693	0.9699	9076.0
61	0.9713	0.9719	0.9726	0,9732	0.9738	0.9744	0.9750	0.9756	0.9761	29260
ล	0.9772	8776.0	0.9783	0.9788	0.9793	0.9798	0.9803	0.9808	0.9612	0.9817
77	0.9821	0.9826	0.9830	0.9834	0.9838	0.9842	0.9846	0.9%50	0.9854	0.9857
2	0.9861	0.9864	0.9868	0.9871	0.9875	0.9878	0.9881	0.9884	0.9887	0.9890
7	0,9893	0.9896	0.9898	0.9901	0.9904	0.9906	0.9906	0.9911	0.9913	0.9916
7	9166'0	0.9920	0.9922	0.9925	0.9927	0.9929	0.9931	0.9932	0.9934	0.9936
2	0.9938	0.9940	0.9941	0.9943	0.9945	0.9946	0.9948	0.9949	0.9951	0.9952
5.6	0.9953	0.9955	0.9956	0.9957	0.9959	0.9960	0.9961	0.9962	0.9963	0.9964
7.7	0.9965	0.9966	0.9967	0.9968	0.9969	0.9970	0.9971	0.9972	0.9973	0.9974
37	0.9974	0.9975	92660	0.9977	0.9977	0.9978	0.9979	0.9979	0.9980	0.9981
57	0.9981	0.9982	0.9982	0.9983	0.9984	0.9984	0.9985	0.99%5	9866.0	9866.0
2	0.9987	0.9987	0.9987	0.9988	0.9988	6866'0	0.9989	0.9989	0.9990	0.9990
2	0.9990	0.9991	0.9991	166670	0.9992	0.9992	0.9992	0.9992	0.9993	0.9993
z	0.9993	0.9993	0.9994	1666.0	0.9994	0.9994	0.9994	0.9995	0.9995	0.9995
3.3	0.9995	0.9995	0.9995	0.9996	0.9996	0.9996	0.9996	96660	0.9996	0.9997
£.	0.9997	0.9997	0.9997	0.9997	0.9997	0.9997	0.9997	0.9997	0.9997	8666.0

系所:工管所、資管系

國 立 雲 林 科 技 大 學 99 學年度碩士班暨碩士在職專班招生考試試題

科目:統計學(1)

Table A.6 (continued) Critical Values of the F-Distribution f<sub>0.05</sub>[0<sub>1,</sub> 0<sub>2</sub>]

0.1         1.1         1.5         20         20         40         60         120         8           1.1         1.1         1.5         20         24.0         29.1         25.1         25.1         25.2         25.3         25.3         25.3           2.1         1.1.0         1.5         20.9         24.0         29.1         25.1         25.2         25.3						_						_				_																			_	
10         11         18         20         24         30         40         60           2419         2439         2459         2450         2450         2451         250.1         251.1         252.2           19.40         19.41         19.43         19.48         19.45         19.46         19.47         19.48           8.70         8.71         19.45         19.45         19.46         19.47         19.48           8.70         8.76         8.66         8.64         8.64         8.67         8.59         8.57           8.70         8.70         8.66         8.64         8.62         8.59         8.57         8.59           8.70         8.71         19.45         14.5																																				
10         11         15         20         24         30         40           241,9         243,9         248,0         249,1         250,1         251,1           879         874         1945         1946         1947         1940           879         874         1945         1946         1947         1947           879         874         876         877         873         873           474         458         462         458         874         873         874           470         400         394         387         371         373         374         371         378         374         371         378         374         371         378         374         371         378         374         371         378         374         374         378         374         378         374         378         374         374         378         374         374         378         374         378         374         378         374         378         374         378         374         378         374         378         374         378         374         378         374         378         374 <th></th> <th></th> <th>• •</th> <th></th> <th>-</th> <th></th> <th></th> <th></th>			• •																														-			
10         11         15         20         24         30           241.9         243.9         243.9         243.9         243.9         243.1         250.1           18.40         18.41         18.45         18.45         18.46         8.62           5.59         5.91         5.86         5.86         8.62         8.62           5.59         5.91         5.86         5.87         5.75         5.75           4.74         4.68         4.62         4.56         4.56         8.62         8.62           4.64         4.00         3.94         3.87         3.84         3.61         5.75         5.75           4.66         4.00         3.94         3.87         3.84         3.81         3.82         2.82         2.82         2.82 <t< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></t<>																																				
10         11         15         20         24           241,9         243,9         243,9         243,9         243,9         243,9         243,1         244,1		3	231.1	19.47	2	5.72	4.46	3.7	स्	3,0	283	770	5	573	ਨ	111	2.30	2.15	2.10	205	203	35	38:	<u>ਡ</u> :	1.91	68.1	1.87	<u>8.</u>	# <u></u>	목	18.	1.79	1.69	<u>ş.</u>	<u>5,</u>	1.39
10         11         15         20         24           241,9         243,9         245,0         249,1         248,0         249,1           879         874         878         878         878         878           879         874         1943         1945         1945         1945           879         874         878         878         878         878           474         458         462         458         878         878           400         304         358         371         341         341           346         357         351         344         341         341           346         357         351         344         341         341           348         358         372         344         341         341           248         279         273         273         274         274         274           246         248         248         249         243         244         244           249         248         249         243         244         244         244           240         248         248         248         2		R	250.1	19.46	29'8	5.75	9,	385	338	3.08	2.86	2.70	151	2.13	238	12	223	2.19	215	711	2.07	507	20	8.	25:1	1.9	1.92	8.	1,88	1.87	1.85	1.84	1.7	3	1.55	94.1
241.9 243.9 245.9 1  8.70 8.74 8.70 8.70 8.74 8.70 8.74 8.70 8.74 8.70 8.74 8.70 8.74 8.70 8.74 8.70 8.74 8.70 8.74 8.70 8.74 8.70 8.74 8.70 8.74 8.70 8.74 8.70 8.74 8.70 8.74 8.74 8.74 8.74 8.74 8.74 8.74 8.74	-	72	249.1	19.45	38	5.77	453	381	3.41	3.12	2.90	2.74	261	2	242	333	239	224	2.19	2.15	2.11	2.08	2.05	203	2.01	1.98	96.1	1.95	1.93	16.1	1:90	1.89	1.79	2.7	1.61	152
241.9 243.9		2	248.0	19.45	8.66	SSS	Α. Σ,	3.87	344	3.15	2.94	2.77	2.65	2.54	246	23	233	2.28	273	2.19	2.16	212	210	200	205	2.03	2.01	1.99	1.97	1.96	<u>ま</u>	1.93	3	1.73	1.66	1.57
24.5 8.54 8.54 8.54 8.54 8.54 8.54 8.54 8		23	, , ,																																	
		12																																		
い ここう 4 くろうきゅ おにははは おおにはひ おおなお おおのぼ		2	241.9	19.40	8.73	5.98	4.74	¥	3	33	3.4	39%	285	7.	797	2,65	253	2.40	2.45	17.	238	235	5	23	227	17	2.24	222	27	2.19	2.18	2.16	208	1.99	1.91	1.83
			-	7		4	•	, 4	, ,	- 00	•	\$	=	2 :	1 =	* #	¥	3 %	2 5	=======================================	2	5	7 1	1 2	1 #	1 7	×	32	7	×	*	8	<b>?</b>	8	2	ĸ



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ร์		7	£	*	\$	9	7	8	6
-	161.4	199.5	215.7	224.6	230.2	234.0	236.8	6'88'7	240.5
М	18.51	19.00	19,16	19.25	19.30	19,33	19.35	19.37	19.38
m	10.13	9.55	9.28	9.12	9.01	8.94	8.83	8.85	8,8
7	17.1	<b>3</b>	6.59	623	6.26	91.9	609	<del>1</del> 0'9	900
w	6.61	5.79	5.41	5.19	5.05	4.95	4.58	1.82	4,77
9	5.99	5.14	4.76	4.53	439	4.28	17.7	4.15	4,10
_	5.59	4.74	4,35	4.12	3.97	3,87	3.79	3.73	3.6
40	5.32	4.46	4.07	3.84	3.69	358	3.50	3.44	3.39
•	5.12	4.26	3,86	3.63	3,48	337	3.29	3.23	3.18
2	4.96	4.10	3.71	3.48	3,33	322	3.14	3.07	3.02
=	3	3.98	3.59	336	320	3.03	3.01	2.95	2.90
2	4.75	3.89	3.49	326	3.11	3.00	2.91	2.85	2,8
2	4.67	3.81	3.41	3,18	3,03	2.92	2.83	2.77	2.7
7	97	3.74	3,34	3.11	2.96	2.85	2.76	2.70	2.65
15	3	3.68	3.29	3.06	290	2.79	2.71	764	2.59
91	6++	3.63	3.24	3.01	2.85	2.74	2.66	2.59	2.54
2	4.45	3.59	3.20	2,96	2.81	2,70	2.61	2.55	2.49
×	77	3.55	3.16	2.93	2.77	2.66	2.58	2.51	2.40
6	438	3.52	3.13	2.80	2.74	2.63	2.54	347.	2.4
23	\$5.4	3.49	3.10	2.87	17.7	2.60	2.51	2.45	2.38
===	132	3.47	3.07	2.84	2,68	2.57	2.49	2:42	23
H	430	3.44	3.05	282	2.66	255	2.46	2.40	23.7
ដ	428	3.42	3.03	2.80	3.	2.53	2. 4.	2.37	2.3
73	479	3.40	3.01	2.78	2.62	251	2.42	236	230
23	424	3.39	2,99	2.76	2.60	2.49	2.40	2.34	2.2
ន	423	3.37	2.98	2.74	2.59	2.47	2.39	2.32	2.2
7	421	3.35	282	2.73	2.57	2,46	2.37	2.31	2.25
**	4.20	3.34	2.95	2.71	2.56	2.45	2.36	2.29	22
23	4.18	3.33	2.93	2.70	255	2.43	2.35	2.28	22
8	4.17	3.32	2,92	2.69	2.53	2.42	233	227	2.21
\$	80.7	323	284	761	2.45	7.7	2.25	2.18	2.12
8	7.00	3.15	2.76	253	2.37	22	2.17	2.10	202
8	3.92	3.07	2.68	2.45	229	2.17	763	2.02	<u>8</u> .
	3.84	3.00	2.60	2.37	2.21	2,10	2,01	1.94	1.88

99 學年度碩士班暨碩士在職專班招生考試試題

系所:資管系

科目:資訊管理導論

### © Essay questions part I: (10% each)

- 1. A business perspective on information systems can be described as "Business Information Value Chain," explain the major business processes, information processing activities, and management activities involved in this value chain.
- Why do some firms obtain greater value from their information systems than
  others? Based on resource perspective of MIS, comment on the complementary
  assets required for information technology to create sustainable competitive
  advantages for businesses.
- 3. Define IT infrastructure ecosystem; describe its major components and their contemporary trends.
- 4. Based on the example of customer decision support system (CDSS), describe main components of a DSS and the way DSS provide value for a business.
- 5. Identify the principle risk factors in information systems projects; suggest appropriate strategies for managing project risk and system implementation.

### © Essay questions part II:

- 6. How attitudes toward inter-organization relationship establishment affect the willingness to share knowledge and how this association is affected by the control over resources and use of resources? Describe a theoretical model from four or five conceptions as followings (20%) and future research (5%).
  - a. Power Symmetry
  - b. Relational Benefits
  - c. Dysfunctional Conflict
  - d. Relational Proclivity
  - e. Connectedness
  - f. Relational Risk
  - g. Loss of Competences
- 7. To the best of your knowledge and practices, construct a new evaluation model for the general evaluation problem of the critical strategy which can facilitate a successful enterprise resource planning systems implementation for enabling the goal alignment between the project team and the organization. (25%)



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99 學年度碩士班暨碩士在職專班招生考試試題

科目:資料結構(2)

- 1. 給一個 n 元素的陣列 A,內存 0 或 1 的鍵値。(a)設計一個有效的演算法排序 A 陣列,讓所有 0 值在陣列內都排在 1 前面。只能使用 A 陣列本身,不能再額外使用其他陣列。請以虛擬碼呈現演算法,演算法的時間複雜度越低越好。並舉例且輔以圖示簡略說明你的演算法之運作 (10%) (b)分析你的演算法的時間複雜度。(10%)
- 2. A deque is a data structure consisting of a list of items, on which the following operations are possible:

push(x): Insert item x on the front end of the deque.

pop(): Remove the front item from the deque and return it.

inject(x): Insert item x on the rear end of the deque.

eject(): Remove the rear item from the deque and return it.

Write routines in pseudo-code to support the deque that take O(1) time per operation. (16%)

- 3. Describe, in pseudo-code, an algorithm for computing the number of descendents of each node of a binary tree. (14%)
- 4. Transform the following predicate calculus into the prefix form: (10%)

```
\neg x \land y \lor \neg y \land z \lor x \land \neg z
```

- 5. Consider a sequence of keys: 1, 2, 3, 4, 5, 6, 7, 8, 9. Please draw the result by inserting these keys successively into an empty
  - (1) binary search tree (5%)
  - (2) AVL tree (5%)
    - (3) 2-3 tree (5%)
- 6. The recursive function G listed below is implemented in C programming language. What is the returning value of G(15, 6)? Why? (10%)

```
int G(int m, int n)
{
return((m%n == 0) ? n : G(n, m%n));
}
```

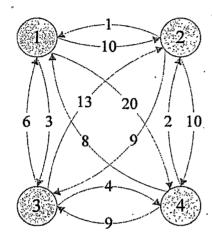


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國立雲林科技大學
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科目:資料結構(2)

. 7. 給定一個有向網路圖如下所列,請以演算法計算出下圖任意兩頂點間之最短 距離,並寫出演算的過程。(15%)





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科目:計算機概論(3)

### 單選題,每題2分,共100分。

1.	Switches are o	alled Layer d	evices.	
	(A) 1	(B) 2	(C) 3	(D) 4
2.	Ethernet uses a	ı(n) topology.		•
	(A) bus	(B) mesh	(C) extended star	(D) point-to-point
3.	Which 802 Wor	rking Group creates	security standards?	
	(A) 802.1	(B) 802.3	(C) 802.11	(D) 802.16
4.	Bluetooth offer	s a rated speed tod	ay of about	·
	(A) 3 Mbps	(B) 11 Mbps	(C) 22 Mbps	(D) 54 Mbps
5.	In the mask 25!	5.255.128.0, how m	any 1s are there?	
	(A) 16	(B) 17	(C) 18	(D) 19
6.	A TCP se	gment is a request	to open a connectio	n.
	(A) SYN	(B) ACK	(C) Open	(D) Connect
7.	is used f	or supervisory mes	sages at the internet	layer.
	(A) TCP	(B) DNS	(C) DHCP	(D) ICMP
8.	Unsolicited cor	mmercial e-mail is _	•	
	(A) spam	(B) adware	. (C) identity theft	(D) social engineering
9.	The most popu	ılar client-side script	ting language is	• ,
	(A) PHP	(B) ASP.NET	(C) JavaScript	(D) VBScript
10.	. As a process e	executes, it change	s state. Which of th	ne following is <u>not</u> a process
	state?		,	
	(A) New	(B) Save	(C) Ready	(D) Waiting
11.	is a gra	phical language tha	t allows people wh	o design software systems to
			to represent them.	
	(A) ERD	(B) DFD	(C) SQL	(D) UML
12.	. The pr	ogram combines t	he output of the o	compiler with various library
		oduce an executabl		,
	(A) editor	(B) linker	• •	
13				tween calls to the function, it
			storage-class specifie	
	(A) auto	•	(C) static	
14			obile devices that in	ncludes an operating system,
		nd key application.	(C) Onan\/Ms	(D) Android
	(A) IVIAC OS	(R) MIUGOMS /	(C) OpenVMS	(D) Alluloid



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科目:計算機槪論(3)

15.	is a group	of interrelated	d web development t	echniques used on the
	client-side to create	interactive wel	application.	
	(A) Ajax	(B) CGI	(C) Java Server Pages	(D) .NET Framework
16.	are frequent	ly used to mo	del the processing req	uirements for most new
	systems.			
	(A) Organization diag	grams .	(B) Data model diagran	ns `
	(C) Data flow diagrar	ns	(D) Connectivity diagra	ms
17.	are used du	ring requirem	ents elicitation and ar	nalysis to represent the
	functionality of the s	system.		
	(A) class diagrams		(B) statechart diagrams	i
	(C) activity diagrams		(D) use case diagrams	
18.	is the study of	f a current busi	iness and information sy	stem application and the
	definition of user red	quirements and	d priorities for a new or	improved application.
	(A) System planning		(B) Systems analysis	
	(C) Systems design	•	(D) Systems Implement	ation
19.	files are XML-	formatted text	files that reside in Web	site's root directory and
	typically specify conf	figuration setti	ng for the site.	
	(A) Setenv.aspx	(B) Global.asa	x (C) Aspnet.ini	(D) Web.config
20.	is a process	improvement	approach that provide	s organizations with the
	essential elements	of effective	e processes that ult	imately improve their
	performance.			
	(A) SCMP	(B) OOSE	(C) CMMI	(D) RARD
21.	is a free soci	al networking	and micro-blogging ser	vice that allows users to
	send updates throu	ugh short mes	ssages or links, which	can be up to 140 text
	characters in length.			
	(A) Plurk	(B) Firefox	(C) Stimator	(D) BitComet
22.	Which of the followi	ng is the categ	ory that includes individ	uals who sell products or
	services to organizat	ions, as well a	s individuals who seek s	ellers, interact with them,
	and conclude a trans	saction?		
	(A) B2C	(B) C2C	(C) C2B	(D) B2B
23.	describes a no	ew supplement	t, consumption and deli	very model for IT services
	based on Internet, a	nd it typically i	nvolves the provision of	dynamically scalable and
	often virtualized res	ources as a ser	vice over the Internet.	
	(A) Grid computing		(B) Cloud computing	
	(C) Parallel computing	ng	(D) Mobile computing	

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科目:計算機概論(3)

24.	Objects have	the property of <sub>-</sub>	— although	objects may know how to
	communicate v	vith one another a	cross well-defined i	interfaces, they normally are
	not allowed to I	know how other ob	jects are implement	ed.
	(A) information	hiding	(B) inheritance	
	(C) polymorphis	sm	(D) overloading	
25.	Which of the fo	llowing is true?		
	(A) The address	operator & can be	applied only to cons	stants and to expression.
	(B) A pointer th	at is declared to be	of type void * can b	e dereferenced.
	(C) Pointers of operation.	different types can	never be assigned t	o one another without a cas
	(D) Pointer can	be assigned to one	another if both poir	nters are of the same type.
26.		nputational comple ute-force search?	xity when solving th	ne traveling salesman
	(A) O(n)	(B) O(n <sup>2</sup> )	(C) O(n <sup>3</sup> )	(D) O(n!)
27.		sitive algorithm	ys a degree of rando (B) deterministic a (D) probabilistic al	<del></del>
28	. Which one of t	he followings is <i>not</i>	a classification algo	rithm?
	(A) C4.5	(B) ID3	(C) CHAID	(D) DEFLATE
29	. Which one of t	he following abstrac	· ct data types retains	the input order?
	(A) list	(B) bag	(C) set	(D) map
. 30	i.e., in the orde			by-piece in a serial fashion, without having the entire
	(A) offline algo	rithm	(B) online algorith	<b>m</b>
	(C) adaptive al	gorithm	(D) stable algorith	m
31	. Which one of t	he followings is a lir	nk-state routing prot	tocol?
	(A) IGRP	(B) EGP	(C) OSPF	(D) BGP
32	. Which one of t	he followings is <i>not</i>	a property of a data	abase transaction?
*	(A) atomic	(B) consistent	(C) isolated	(D) distributed
33		- 1	I forms is defined by	
	(A) 4NF	(B) BCNF	(C) 3NF	(D) 2NF
		,		

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國立雲林科技大學
99學年度碩士班暨碩士在職專班招生考試試題 科目:計算機概論(3) 34. Which one of the followings is often used to implement the dimensional model on top of the relational model? (A) tree schema (B) star schema (C) sun schema (D) moon schema 35. Which one of the followings is not a data manipulation language in SQL? (B) update (C) create (A) insert (D) delete 36. Which one of the followings is not a referential action in SQL? (A) CASCADE (B) RESTRICT (C) NO ACTION (D) TRIGGER 37. Which one of the followings is not a relational algebra operator? (A) EXECUTE (B) RENAME (C) DIVISION (D) SELECTION 38. What is an entity that cannot be uniquely identified by its attributes alone? (A) string entity (B) weak entity (D) foreign entity (C) regular entity 39. What is a class that cannot be instantiated? (A) inner class (B) concrete class (C) abstract class (D) anonymous class 40. What is the act of casting a reference of a base class to one of its derived classes? (A) inheritance (B) polymorphism (C) upcasting (D) downcasting 41. What is the relationship where one object belongs to another object and behaves according to the rules of ownership? (B) is-a (C) associate with (D) comply with (A) has-a 42. What is an object that allows a programmer to traverse through all the elements of a collection, regardless of its specific implementation? (A) index (C) reference (B) iterator (D) generator 43. Which one of the followings is not a mechanism of process synchronization? (A) semaphore (B) mutex (C) vector (D) monitor 44. Which one of the followings does not use the stub/skeleton approach? (A) RPC (B) DCE (C) RMI (D) DES 45. Which one of the followings is generally not a feature of a message-oriented middleware? (A) synchronous delivery (B) persistent storage (C) message routing (D) message transformation

46. What is the classification of array processors according to Flynn's taxonomy?

(C) MISD

(D) MIMD

(B) SIMD

(A) SISD



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科目:計算機槪論(3)

	47.	Which	one of th	e followings	is an	ontology	language?
--	-----	-------	-----------	--------------	-------	----------	-----------

- (A) IDL
- (B) ALGOL
- (C) OWL

(D) ML

- 48. What is the field of management that focuses on establishing and maintaining consistency of a system's or product's performance and its functional and physical attributes with its requirements, design, and operational information throughout its life?
  - (A) network management
- (B) program management
- (C) model management
- (D) configuration management
- 49. What is a physical infrastructure through which Internet service providers (ISPs) exchange Internet traffic between their networks?
  - (A) Internet exchange point
- (B) domain name registrar

(C) proxy server

- (D) Internet gateway
- 50. What is the length of an IPv6 address?
  - (A) 64 bits
- (B) 128 bits
- (C) 256 bits
- (D) 512 bits