系所: 資管系

科目: 資訊管理導論

O Part I.

Please explain or define the following terms: (4% each)

- A. Multidimensionality
- B. Virtual value chain
- C. SMART
- D. Revolving Door Theory
- E. SOAP

O Part II.

Essay questions: (10% each)

- 1. Explain what business processes are, and introduce four key enterprise applications with the aim of integrating business processes.
- 2. Define edge computing and on-demand computing, and comment on their implications on the contemporary computer hardware platform trends.
- Identify major tools of business intelligence, and describe the way it can provide information from databases to improve business performance and decision making.
- 4. Describe the concept of recovery-oriented computing, and distinguish between disaster recovery planning and business continuity planning.
- 5. Describe component-based development and web services, and explain how they help digital firms build and enhance their information systems.
- 6. Introduce major types of global strategies; demonstrate the connection between global strategy and information systems design.

系所:資管系

科目:資訊管理導論

Part III.

Minicase

Very few people would associate a fisherman with HTML, but Bob Maillet, the owner of a small fishing company in Alaska, combined fishing and HTML, creating one of the most interesting electronic enterprises.

In an attempt to fight the stiff competition from Japan, Mr. Maillet, whose company was on the verge of bankruptcy, tried to find new niche markets. In exploring the market for sea snails, he realized that he lacked knowledge. While searching for knowledge, he was introduced the Web as a solution to this problem. In appreciation of the power of the Internet, he taught himself HTML and launched a Web site called the FishMart (www.fishmart.com). This site provides considerable information for the fisherman. For example, it helps sellers identify buyers with trouble credit histories, lists sources of loans for commercial fishermen, provides links to all related government agencies, provides weather reports, and reports fish prices in all the major markets—all for free.

The site makes money from classified ads for fishing-related products and services, including help-wanted ads for employees. A second source of income is the company's public market, which rents space on the Web site to seafood retailers who offer their products (mainly salmon) there. In 1997, actual trading was completed via the telephone, so the site was basically used for advertisement. This situation changed in 1998, and now customers can order and pay electronically. Another feature is the auction market that is available on the Web site (experimental in 1998).

The auction market can profoundly change the way the seafood industry operates. The existing process includes the following steps:

- 1. Fishermen catch fish and sell them to processors.
- 2. Processors sell the fish products to wholesales and brokers, who sell them to retailers, including supermarkets and restaurants.
- 3. Retailers sell the fish to customers.

系所:資管系

科目:資訊管理導論

Here is how the auction works:

 Sellers of any fish product can place their products up for bid on the FishMart for any of the marketing channel. FishMart inspects the quality to assure compliance with quality standards.

- 2. Buyers open trading accounts with FishMart. Any approved buyer can bid on price and quantity via a click on the Web site.
- Once a bid is accepted, payments are arranged and shipments are executed (special help is available to organize the shipments, which frequently involve inter-country traders).
- 4. Payments can be made via special accounts maintained by Merrill Lynch, a large financial service company. Buyers deposit funds in an inter-paying account and, using a password, can authorize electronic transfer of fund to the sellers.
- 5. In the past, the sellers used hundreds of salespeople to call on potential buyers. Commissions supplemented many of the salespeople's salaries. Now, the sellers use the Web site and pay a commission only when a sale is made.

Maillet's company, Innovative Internet Marketing Systems, is both business-to-customer and business-to-business oriented, and it is expected to grow rapidly.

Questions for Minicase:

- A: This auction market is considered a BPR, when compared with the previous use of salespeople. Why? (10%)
- B. What are the benefits of the auction market to the sellers? to the buyers? (10%)

系所:資管系、設運所 科目:計算機概論

第	 部	分

7.	FI. 14				
_	、單選題 (每題2分,共30分)				
1.	I wish to have a wireless LAN to ser	ve my	house. I will	use	
	(A) RFID (B) ZigBee				
2.	In routing tables, which column desc				
	(A) The metric column				:
	(C) The IP address range column (column
3.	Which of the following can provide				
					and a ferromanness.
	(A) Layer 2 switches (C) Layer 4 switches ((D) La	ver 5 switche	es	
4.	A Windows host sends a TCP segment				ner 47 and destination port number
••	3270.	************	a source porc		or it and desimation post number
	(A) The destination host is a server ((B) ፐክ	e destination	host	is a client
	(C) The source host is a server				
5.	Digital certificate authentication prov				
٠.	(A) his or her private key	, 60 (11)	at the upprious	,	
	(B) his or her public key .				
	(C) the public key of the party the ap	nlican	it claims to be	•	
	(D) the private key of the party the ap	-			
6	When an SSL/TLS gateway is used i				oservers and no other servers, how
٠.	many SSL/TLS connections will the				
	(A) One (B) Two ((D) I	our +
7.	DoS attacks are attacks on .	(-)		(-)-	
••	DoS attacks are attacks on (A) integrity (B) sensitivity ((C) av	ailability	(D) (confidentiality
8.	The scope of is a single inform	nation	system appli	catio	n.
	(A) systems planning (
	(C) systems design ((D) sv:	stems implem	enta	tion
	A represents the input of data				
	(A) data flow	B) use	e case	•	
	(A) data flow (C) state diagrams ((D) co.	nnectivity dia	gran	ıs
10.	is a property that allows the ge	eneric	description o	f obj	ects which are then reused by
	related objects.		•	3	. •
	(A) Encapsulation (B) Inheritance	((C) Polymorph	ism	(D) Public
11.	During the phase of Rational U	Unifie	d Process, you	u est	ablish the business case for the
	system and delimit the project's scop	e.			
	(A) elaboration (B) construction		C) inception		(D) transition
	Which of the following is not a comm				plementation?
			3) One-to-One		
	(C) Many-to-Many Model		O) One-to-Ma		
	Which of the following is not a neces	•	,	•	
	(A) bounded waiting		3) mutual exc		
	(C) hold-and-wait	Ì)	o) no preempt	ion	
14.	is a scheme that permits the lo	gical a	address space	of a	process to be noncontiguous.
	(A) Swapping (B) Sharing				
15.	is a special case of the general	priori	ty scheduling	algo	rithm, which simply allocates the
	CPU to the highest-priority process?	-			-
	(A) First-come, first-served scheduling	ng (E	3) Shortest-jo	b-firs	t scheduling
	(C) Round-robin scheduling				e Scheduling

國立雲林科技大學 98 學年度碩士班入學招生考試試題

系所:資管系、設運所

科目:計算機概論

二、試比較分析傳統結構化程式語言與物件導向程式語言有何異同之處。 (10%)

三、假設有1個背包及7項物品,背包可以載重25公斤,7項物品(編號)的價值(元)及重量 (公斤)如下表所示,試問該如何裝才可以帶走最有價值的物品呢?其價值又是多少呢? 註:不可直接寫答案需寫出運算過程才給分。(10%)

物品	1	2	3	4	5	6	7
價值	4	9	7	2	5	8	3
重量	1	6	1	10	7	8	4

		價值	4	9	7	2	5	8	3		
		重量	1	6	1	10	7	8	4		
* #	一郎人(照照 5	ar o v	11	50. 4	`	<u>'</u>	•		•	•	
-	二部分(單選題,每	-			•						
1.					e pack	tage th	ıat pı	ovide	s emu	lation of the underlying	
	raw hardware on the x										
_	(A) VMware (B) M'										
2.	Which one of the follo								ttache	d SCSI) architecture?	
	, , , , , , , , , , , , , , , , , , , ,	plication				rt (D					
3.		wings c	onsis	ts of s	uites	of rela	ited a	ipplic	ations	that voluntarily ecde tim	ie
	to each other?										
	(A) multiprogramming				-	ative n		askin	g		
	(C) preemptive multita					readir					
4.	Which one of the follo							by Mi	croso	it Windows?	
_	(A) NTFS (B) FA		(C) c		•	D) UD					
5.	Which one of the follo							not s	uppor	t dynamic typing?	
_		Sp .									
6.		_		•	•	which	an o	bjeet :	sends	data to another object or	
	asks the other object to	o invoke								•	
	(A) polymorphism			` '	-	ulatior					
	(C) inheritance			(D) message passing							
7.	Which one of the follo	_			•			mpute	er netv	vork?	
	(A) GNUnet (B) Na										
8.	Which one of the follo	owings is				a struc	ture	?			
	(A) linked list			(B) qı							
	(C) binary heap					r buffe					
9.	Which one of the follo	owings is	not	a gco	graph	ic data	moc	lel?			
	(A) entity-relationship	data mo	odel								
	(B) vector data model										
	(C) raster data model										
	(D) triangulated irregu										
10.	Which one of the follo	owings is	s an a	lgorit	hm th	at inv	okes	itself	repeat	edly until a certain	

- 1 condition matches?
 - (A) recursive algorithm
- (B) iterative algorithm
- (C) deterministic algorithm
- (D) approximation algorithm
- 11. Which one of the followings is not a compiled language?
 - (A) C++ (B) Ruby
- (C) Common Lisp
- (D) Visual Basic
- 12. Which one of the followings is a sequential development process, in which development is seen

系所: 資管系、設運所

科目:計算機概論

	as flowing steadily downwards through the phases of requirements analysis, design,
	implementation, testing (validation), integration, and maintenance?
	(A) software prototyping (B) incremental development
	(C) waterfall model (D) spiral model
13.	Which one of the following classifications will distributed systems be generally recognized as?
	·(A) single instruction, single data stream
	· · ·
	(B) single instruction, multiple data streams
	(C) multiple instruction, single data stream
	(D) multiple instruction, multiple data streams
14.	Which one of the followings is a software testing method that is used to test internationalization
	aspects of software?
	(A) code coverage (B) fault injection
	(C) boundary value analysis (D) pscudolocalization
15.	Which one of the followings is not a metric of service level agreement?
	(A) time service factor (B) cyclomatic complexity
	(C) abandonment rate (D) turnaround time
16	Which one of the followings is <i>not</i> a part of the database transaction ACID properties?
10.	(A) atomicity (B) consistency (C) isomorphism (D) durability
17	Which one of the following relational algebra operations produces a new relation with only
١/.	
	some of the attributes of its operand?
	(A) π (B) σ (C) \times (D) \cup
18.	Which one of the followings is a DDL statement in SQL?
	(A) ALTER (B) COMMIT (C) INSERT (D) SELECT
19.	Which one of the followings is a web application architecture based on XForms, REST and
	XQuery?
	(A) OQL (B) XRX (C) LINQ (D) QBE
20.	Which one of the followings is a protocol specification for exchanging structured information
	in the implementation of Web Services in computer networks?
	(A) DHCP (B) SSH (C) SOAP (D) SMTP
21.	Which one of the followings is a public key/private key encryption algorithm?
	(A) SHA-1 (B) MD5 (C) DES (D) RSA
2	Which one of the followings is an entity which issues digital certificates for use by other
	parties?
	(A) registration authority (B) validation authority
	(C) trusted authority (D) certificate authority
12	
٤٥.	Which one of the followings can perform some or all of the functions normally performed by a
	router?
	(A) layer 2 switch (B) layer 3 switch
	(C) layer 4 switch (D) layer 7 switch
24.	Which one of the followings is <i>not</i> a part of the Java programming language?
	(A) while (B) for (C) goto (D) switch
25.	Which one of the followings is an architecture to attach remote computer storage devices to
	servers in such a way that the devices appear as locally attached to the operating system?
	(A) SAN (B) NAS (C) NFS · (D) AFS

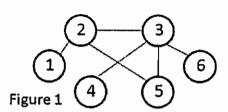
國 98 2

國立雲林科技大學

98 學年度碩士班入學招生考試試題

系所:资管系 科目:資料結構

1. 請分別以串列(linked list)及相鄰矩陣(adjacency matrix)表達下列圖形 (graph),並分析以這兩種資料結構表達圖形之優缺點。(10%)



- 2. 假設串列 L 內的鍵值都不相同,演算法 count sort 能將 L 內的鍵值依大小順序排列在一個新的陣列 S 中。從頭到尾 L 內的每個鍵值 L.entry[i].key。Count sort 逐一和 L 串列內每一個鍵值比較,計算有多少鍵值比 L.entry[i].key 還小。若有 c 個的話,就將該鍵值放在新的陣列 S 中 c+1 的位置。(a)請分析 count sort 演算法需要進行多少次鍵值比較?(10%)(b)請以虛擬碼寫出 count sort 演算法。(10%)
- 3. MAX-HEAPIFY is a subroutine for manipulating max-heaps. Its inputs are an array A and an index *i* into the array. When MAX-HEAPIFY is called, it is assumed that the binary trees rooted at LEFT(*i*) and RIGHT(*i*) are max-heaps, but that A[*i*] may be smaller than its children, thus violating the max-heap property. After MAX-HEAPIFY is called, the violation will be corrected. (a) Given an array A as shown in Figure 2, after MAX-HEAPIFY(A, 2) is executed, what content will A have? (10%) (b) Assume *n* be the size of A, analyze the time-complexity of MAX-HEAPIFY in terms of *n*. (10%)

MAX-HEAPIFY(A, i)

 $l \leftarrow \text{LEFT}(i)$

 $r \leftarrow \text{RIGHT}(i)$

if $l \le \text{heap-size}[A]$ and A[l] > A[i]

then largest $\leftarrow l$

else largest \leftarrow i

if $r \le \text{heap-size}[A]$ and A[r] > A[largest]

then largest $\leftarrow r$

if largest $\neq r$

then exchange $A[i] \leftrightarrow A[largest]$

MAX-HEAPIFY(A, largest)

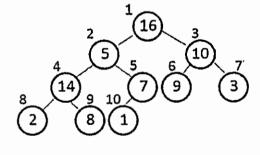


Figure 2

4. 某個二元搜尋樹的前序(preorder)追蹤結果是 90 60 10 50 40 20 30 70 80 100 請畫出此二元搜尋樹及它的中序(inorder)與後序(postorder)追蹤結果。(15%)



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請將下列的遞迴定義化簡。(20%)

$$T(n) = \begin{cases} 1, & \text{if } n = 1\\ n + \sum_{j=1}^{n-1} T(j), & \text{if } n > 1 \end{cases}$$

將下列鍵值以 hash 函數 h(k)=k mod 11 依序放入陣列裡面,若產生碰撞,則 6. 以 linear probing 的方式來解決。請畫出全部 hash 的經過。(15%)



1

國立雲林科技大學
98 學年度碩士班入學招生考試試題

系所:工管所、資管系

科目:統計學

(一)	選擇題	:	單選題	,	每題	5	分	٥
-----	-----	---	-----	---	----	---	---	---

1. A discrete random variable X has the probability function

$$p(x) = k(1/2)^x$$

$$x = 1, 2, 3$$

What is the value of k?

- (A) $\frac{1}{2}$ (B) $\frac{1}{4}$ (C) $\frac{8}{7}$ (D) $\frac{4}{3}$ (E) $\frac{7}{8}$

- 2. A joint probability density function of Y_1 and Y_2 is

$$f(y_1, y_2) = \begin{cases} 6(1 - y_2), & 0 \le y_1 \le y_2 \le 1\\ 0, & \text{elsewhere} \end{cases}$$

Find $Cov(Y_1, Y_2)$.

- $(A) \cdot 0.25$
- (B) 0.50 (C) 0.15
- (D) 0.125
- (E) 0.025
- 3. The lifetime (in hours) Y of an electronic component is a random variable with density function given by

$$f(y) = \begin{cases} \frac{1}{100} e^{-y/100} & y > 0 \\ 0, \text{ elsewhere} \end{cases}$$

Three of these components operate independently in a piece of equipment. The equipment fails if at least two of the components fail. What is the probability that the equipment will operate?

- (A) 0.050
- (B) 0.135
- (C) 0.250
- (D) 0.571
- (E) 0.905
- 4. One out of three mini-vans sold by a nationwide auto dealer has a hidden defect in its transmission. What is the probability that a randomly selected purchaser of two mini-vans will wind up with at least one mini-van with a defective transmission?
 - (A) 0.333
- (B) 0.5
- (C) 0.667
- (D) 0.250
- (E) 0.556
- 5. An experienced person has an 80% probability of getting a particular job. An inexperienced person has a 50% chance of getting the same job. 60% of the applicants are inexperienced. If the job is offered to a person, what is the probability that the person was inexperienced?
 - (A) 0.4
- (B) 0.6
- (C) 0.3
- (D) 0.4839
- (E) 0.6667
- The owner of a 100-room hotel has discovered that his reservations team has booked 110 reservations for an upcoming weekend. Experience has shown that 10% of reservations are "no shows." How likely is this hotel to be overbooked (i.e., have more guests arrive than there are rooms available) for this particular weekend?
 - (A) 0.1
- (B) 0.3156
- (C) 0.3
- (D) 0.4839
- (E) 0.9



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系所:工管所、資管系

科目:統計學

7. There are two stocks: A and B. The price of each stock is normally distributed. Stock A has a mean of \$20 and a standard deviation of \$4. Stock B has a mean of \$25, and the standard deviation is \$8. What is the probability that the total price for buying two stocks will exceed \$60?

(A) 0.4535

(B) 0.4332

(C) 0.4247

(D) 0.0753

(E) 0.0465

8. A particular product is shipped in lots of 20. At the receiving department, an inspector samples 5 items from each lot and rejects the lot if more than 1 defective is observed. If a lot contains 4 defectives, what is the probability that it will be rejected?

(A) 0.2817

(B) 0.2487

(C) 0.4696

(D) 0.632

(E) 0.8030

9. The number of industrial accidents at a particular manufacturing plant is found to average three per month. What is the probability that six accidents occurred?

(A) 0.0504

(B) 0.0899

(C) 0.1033

(D) 0.3192

(E) 0.8667

10. In a gambling game a man is paid \$5 if he gets all heads or all tails when three fair coins are tossed and he pays out \$3 if either one or two heads show. What is his expected gain?

(A) -2

(B) -1

(C) 0

(D) 1

(E) 2

(二) 計算題:

- 1. 若公司允許的型一誤差爲 5%,檢驗人員檢驗兩箱產品,在甲箱 50 個產品中有 7 個不良品, 乙箱 45 個產品中也有 7 個不良品。
 - (a) 請問甲、乙箱產品的品質是否相同? (5%)
 - (b) 若此兩箱產品是分別由甲、乙台機器抽驗所得,請問甲、乙兩台機器生產的產品品質 是否相同? (10%)
 - (c) 請求出此兩台機器產品品質差異的 98%信賴區間。(5%)
- 2. 某公司收集 10 位生產線上工人每小時完成工作件數 y 與其技能測驗成績 x 之資料如下:

					<u> </u>					
成績x	85	97	94	92	91	81	77	76	75	71
件數y	25	49	32	26	27	22	23	19	17	15

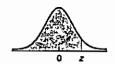
- (a) 若工作件數 y 與技能測驗成績 x 爲簡單線性迴歸模型: $y_i = \hat{\beta}_0 + \beta_1 x_i + \epsilon_i$,請以最小平方法估計 β_0 , β_1 之值。(10%)
- (b) 試求 x, y 的相關係數。(10%)
- (c) 列出迴歸變異數分析表,試檢定此迴歸模式是否合適($\alpha=5\%$)?(10%)

系所:工管所、資管系

科目:統計學

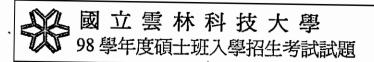
TABLE II (cont.) Areas under the standard normal curve

2



				Seco	nd decir	nal plac	e in z		, 4	
Z	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
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	0.5596	0,5636	0.5675	0.5714	0.5753
0.2	0.5793	0.5832	0.5871	0.5910	0.5948	0.5987	0.6026	0.6064	0,6103	0.6141
0.3	0.6179	0.6217	0.6255	0.6293	0.6331	0.6368	0.6406	0.6443	0.6480	0.6517
0.4	0.6554	0.6591	0.6628	0.6664	0.6700	0.6736	0.6772	0.6808	0.6844	0.6879
0.5	0.6915	0.6950	0.6985	0.7019	0.7054	0.7088	0.7123	0.7157	0.7190	0.7224
0.6	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		0.7673	0.7704	0.7734	0,7764	0.7794	0,7823	0.7852
0.8	0.7881	0.7910	0.7939	0.7967	0.7995	0.8023	0.8051	0.8078	0,8106	0.8133
0.9	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	0.8508	0.8531	0.8554	0.8577	0.8599	0.8621
1.1	0.8643	0.8665	0.8686	0.8708	0.8729	0.8749	0.8770	0.8790	0.8810	0.8830
1.2	0.8849	0.8869	0.8888	0.8907	0.8925	0.8944	0.8962	0.8980	0,8997	0.9015
1.3	0.9032	0.9049	0.9066	0.9082	0.9099	0.9115	0.9131	0.9147	0.9162	0.9177
1.4	0.9192	0.9207	0.9222	0.9236	0.9251	0.9265	0.9279	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
1.8	0.9641	0.9649	0.9656	0,9664	0.9671	0.9678	0.9686	0.9693	0.9699	0.9706
1.9	0.9713	0.9719	0.9726	0.9732	0.9738	0.9744	0.9750	0.9756	0.9761	0.9767
2.0	0.9772	0.9778	0.9783	0.9788	0.9793	0.9798	0.9803	0.9808	0.9812	0.9817
2.1	0.9821	0.9826	0.9830	0.9834	0.9838	0.9842	0.9846	0.9850	0.9854	0.9857
2.2	0.9861	0.9864	0.9868	0.9871	0.9875	0.9878	0.9881	0.9884	0,9887	0.9890
2.3	0.9893	0.9896	0.9898	0.9901	0.9904	0.9906	0.9909	0.9911	0.9913	0.9916
2.4	0.9918	0.9920	0.9922	0.9925	0.9927	0.9929	0.9931	0.9932	0.9934	0.9936
2.5	0.9938	0.9940	0.9941	0.9943	0.9945	0.9946	0.9948	0.9949	0.9951	0.9952
2.6	0.9953	0.9955	0.9956	0.9957	0.9959	0.9960	0.9961	0.9962	0.9963	0.9964
2.7	0.9965	0.9966	0.9967	0.9968	0.9969	0.9970	0.9971	0.9972	0.9973	0.9974
2.8	0.9974	0.9975	0.9976	0.9977	0.9977	0.9978	0.9979	0.9979	0.9980	0.9981
2.9	1899.0	0.9982	0.9982	0.9983	0.9984	0.9984	0.9985	0.9985	0.9986	0.9986
3.0	0.9987	0.9987	0.9987	0,9988	0.9988	0.9989	0.9989	0.9989	0.9990	0.9990
3.1	0.9990	0.9991	0.9991	0.9991	0.9992	0.9992	0.9992	0.9992	0.9993	0.9993
3.2	0.9993	0.9993	0.9994	0.9994	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	0.9996	0.9996	0.9997
3.4	0.9997	0.9997	0.9997	0.9997	0.9997	0.9997	0.9997	0.9997	0.9997	0.9998
3.5	0.9998	0.9998	0.9998	0.9998	0.9998	0.9998	0.9998	0.9998	0.9998	0.9998
3.6	0.9998	0.9998	0.9999	0.9999	0.9999	0.9999	0.9999	0.9999	0.9999	0.9999
3.7	0.9999	0.9999	0.9999	0.9999	0.9999	0.9999	0.9999	0.9999	0.9999	0.9999
<i>3</i> ,8	0.9999	0.9999	0.9999	0.9999	0.9999	0.9999	0.9999	0.9999	0.9999	0.9999
3.9	1.00001									

[†] For $z \ge 3.90$, the areas are 1.0000 to four decimal places.



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TABLE IV Values of t_{α}

df	Ł _{0.10}	L _{0.05}	t _{0.025}	t _{0.01}	t _{0.005}	df
1	3.078	6.314	12.706	31.821	63.657	1
2	1.886	2.920	4.303	6.965	9.925	2
3	1.638	2.353	3.182	4.541	5.841	3
4	1.533	2,132	2.776	3.747	4.604	4
5	· 1.476	2.015	2.571	3.365	4.032	5
6	1.440	1.943	2.447	3.143	3.707	6
7	1.415	1.895	2.365	2.998	3.499	7
8	1.397	1.860	2.306	2.896	3.355	8
9	1.383	1.833	2.262	2.821	3.250	9
10	1.372	1.812	2.228	2.764	3.169	10
11	1.363	1.796	2.201	2.718	3.106	11
12	1.356	1.782	2.179	2.681	3.055	12
13	1.350	1.771	2.160	2.650	3.012	13
14	1.345	1.761	2.145	2,624	2.977	14
15	1.341	1.753	2.131	2.602	2.947	15
16	1.337	1.746	2.120	2.583	2.921	16
17	1.333	1.740	2.110	2.567	2.898	17
18	1.330	1.734	2.101	2.552	2.878	18
19	1.328	1.729	2.093	2.539	2.861	19
20	1.325	1.725	2.086	2.528	2.845	20
21	1.323	1.721	2.080	2.518	2.831	21
22	1.321	1.717	2.074	2.508	2.819	22
23	1.319	1.714	2.069	2.500	2.807	23
24	1.318	1.711	2.064	2.492	2.797	24
25	1.316	1.708	2.060	2.485	2.787	25
26	1.315	1.706	2.056	2.479	2.779	26
27	1.314	1.703	2.052	2.473	2.771	27
28	1.313	1.701	2.048	2.467	2.763	28
29	1.311	1.699	2.045	2.462	2.756	29
30	1.310	1.697	2.042	2,457	2.750	30
31	1.309	1.696	2.040	2,453	2.744	31
32	1.309	1.694	2.037	2.449	2.738	32
33	1.308	1.692	2.035	2.445	2.733	33
34	1.307	1.691	2.032	2.441	2.728	34
35	1.306	1.690	2.030	2.438	2.724	35
36	1.306	1.688	2.028	2.434	2.719	36
37	1.305	1.687	2.026	2.431	2.715	37
38	1.304	1.686	2.024	2.429	2,712	38
39	1.304	1.685	2.023	2.426	2.708	39
40	1.303	1.684	2.021	2.423	2.704	40
41	1.303	1.683	2.020	2.421	2.701	41
42	1.302	1.682	2.018	2.418	2.698	42
43	1.302	1.681	2.017	2.416	2.695	43
44	1.301	1.680	2.015	2.414	2.692	44
45	1.301	1.679	2.014	2.412	2.690	45
46	1.300	1.679	2.013	2.410	2.687	46
47	1.300	1.678	2.012	2.408	2.685	47
48	1.299	1.677	2.011	2.407	2.682	48
49	1.299	1.677	2.010	2.405	2.680	49

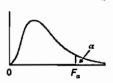


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TABLE VIII Values of F_{α}



						dfn				
dfd	α	1	2	3	4	5	6	7	8	9
	0.10	39.86	49.50	53.59						
	0.05	161.45		215.71					238.88	
1	0.025	647.79				921.85			956.66	
	0.01		4999.5							
	0.005	16211	20000 2	1615 2	2500 2	23056 2	23437 2			4091
	0.10	8.53								9.38
	0.05	18.51		19.16						19.38
2	0.025	38.51								
	0.01	98.50								99.39
	0.005	198.50								
	0.10	5.54			5.34		5.28			5.24
3	0.05	10.13					8.94			8.81 14.47
3	0.025 0.01	17.44 34.12		15.44 29.46	15.10 28.71	14.88 28.24				27.35
	0.005	55.55			46.19					43.88
	0.10	4.54		4.19		4.05		3.98		3.94
	0.05	7.71		6.59	6.39					6.00
4	0.025	12.22		9.98	9.60					8.90
	0.01	21.20		16.69	15.98	15.52	15.21	14.98		14.66
	0.005	31.33		24.26	23.15		21.97		21.35	21.14
	0.10	4.06		3.62	3.52		3.40	3.37		3.32
	0.05	6.61		5.41	5.19		4.95		4.82	4.77
5	0.025	10.01		7.76	7.39		6.98	6.85	6.76	6.68
	0.01	16.26		12.06	11.39	10.97	10.67	10.46	10.29	10.16
	0.005	22.78		16.53	15.56		14.51	14.20		13.77
	0.10	3.78		3.29	3,18	3.11	3.05	3.01	2.98	2.96
_	0.05	5.99		4.76	4.53		4.28	4.21	4.15	4.10
6	0.025	8.81		6.60	6.23	5.99	5.82	5.70		5.52
	0.01	13.75		9.78	9.15	8.75	8.47		8.10	7.98 10.39
	0.005	18.63		12.92	12.03		11.07	10.79	10.57	
	0.10	3.59		3.07	2.96		2.83	2.78	2.75	2.72
_	0.05	5.59		4.35	4.12	3.97	3.87	3.79	3.73	3.68
7	0.025	8.07		5.89	5.52	5.29	5.12	4.99	4.90	4.82
	0.01	12.25		8.45	7.85	7.46	7.19		6.84	6.72
	0.005	16.24		10.88	10.05	9.52	9.16	8.89	8.68	8.51
	0.10	3.46		2,92	2,81	2.73	2.67	2.62	2.59	2,56
	0.05	5.32		4.07	3.84	3.69	3.58	3.50	3.44	3.39
8	0.025	7.57		5.42	5.05	4.82	4.65	4.53	4.43	4.36
	0.01	11.26		7.59	7.01	6.63	6.37	6.18	6.03	5.91
	0.005	14.69	11.04	9.60	8.81	8.30	7.95	7.69	7.50	7.34