

திருவள்ளுவர் பல்கலைக்கழகம், வேலூர் THIRUVALLUVAR UNIVERSITY, VELLORE

Ph.D., - COMMON ENTRANCE TEST (CET9) – JUNE SESSION 2022

Subject : COMPUTER SCIENCE Exam Date : 26.06.2022

Time : 11.00 A.M. TO 12.30. P.M

Maximum Marks : 50

NAME		REGISTER NO	
		HALL TICKET NO.	
MOBILE NO		EMAIL ID	
CANDIDATE SIGNATURE		HALL INVEGILATOR SIGNATURE WITH DATE	

SECTION – A (50 x 1 = 50 Marks) All Questions carry equal marks

	1211 & 0.00010	,	
1. The access method	used for magnetic tape	e is	
	b) Random		d) None of the above
	244000		
	nt of (1000) ₂ is		
a) 0111	b) 0101	c) 1000	d) 0001
3. The address bus flo	w in		
a) bidirection		c) mulidirection	d) Circular
a) bidirection	b) unidirection	c) mundifection	u) Circulai
4. Status register is als	so called as	.	
a) Accumulator	b) Stack	c) Counter	d) Flags
5. The Octal number s	system has base	•	
a) 2	b) 10	c) 8	d) 10
	C		
6. A Register is a grou			
a) OR gates	b) OR & AND gate	c) Flip-flops	d) None of the above
7. Each Flip-flop store	20		
a) 1 bit	b) 8 bits	c) 16 bits	d) 2 bits
a) I bit	U) o uits	c) to ous	u) 2 oits
8. In Boolean algebra	A + A = .		
a) A	b) 1	c) 0	d) None of these
,		,	,
9. What will be the de	ecimal equivalent of (1)	$11011.101)_2$.	
a) 48.625	b) 59.487	c) 48.487	d) 59.625
			tput equation is
a) Y = AB	b) $Y = AB + A'B$	c) Y=A'B+AB'	d) Y=AB+A'B'
11. What is the value of the postfix expression 6 3 2 4 $+-*$?			
			1) 10
a) 1	b) 40	c) 74	d) -18

12. A data structure middle is?	in which elements car	n be inserted or deleted	d at/from both ends but not in the	
a) Queue	b) Circular queue	c) Deque	d) Priority queue	
13. What will be the la) 8	height of a balanced fu	all binary tree with 8 le	aves? d) 4	
14. A graph with all va) Multi		degree is known as a c) Simple	=	
15. In searc	h, the search starts at	the beginning of the li	st and check every element in the	
	b) Binary	c) Hash	d) Binary tree	
16. What is the worst	case complexity of M	lerge sort?		
a) O(N log N)	b) N*N	c) O(log N)	d) $O(\log(\log N))$	
17. Which algorithm step.	strategy builds up a so	olution by choosing the	option that looks the best at every	
a) Greedy method		· ·	b) Branch and bound method	
c) Dynamic programi	ming	d) Divide and conque	er	
18 enum solutions of a given p		ising nodes that could	be computed to give the possible	
a) Exhaustive search		b) Brute force		
c) Backtracking		d) Divide and conque	er	
	nm is used to solve	problems?		
a) Network lock	ath.	b) Single source shord) Sorting	test path	
c) All pair shortest pa	ıuı	d) Sorting		
		acy of an algorithm are		
		b) Data and space rat		
c) Processor and men	nory speed	d) Complexity and ca	pacity	
	_	is stored in the database	•	
a) Image	b) Text	c) Table	d) Graph	
22. The ability to que	ery data, as well as inse	ert, delete, and alter tup	les, is offered by	
		b) DCL (Data Contro		
c) DDL (Data Definit	tion Language)	d) DML (Data Manip	oulation Language)	
		butes taken collective c) Super key	ly to uniquely identify a record. d) Candidate key	
•	,	, .	a) cumulant noj	
	is used to remove a re	_	1) P	
a) Delete	b) Purge	c) Drop table	d) Remove	
	=		ed to individual attributes.	
a) First	b) Second	c) Third	d) Fourth	
26. Execution of two	or more programs by	a single CPU is known	as	
a) Multiprocessing		b) Time sharing		
c) Multiprogramming	7	d) None of the above		

27. A process which is known as	-	emory to secondary me	emory on the basis of requirement
a) Demand paging	b) Paging	c) Threads	d) Segmentation
28. A systematic proca) Synchronization			known as d) Context Switching
29. To access the serva) System Calls		em, the interface is prov c) Library	vided by d) Assembly Instructions
30. Which command a) dir	is used for printing the b) HOME	current working direct	tory? d) pwd
	provides service to the b) Application		d) Physical
32. What is a HUB? a) Software	b) Computing device	c) Network device	d) Calculating device
33. Identify the protocoa) FTP	col primarily used for b	orowsing data. c) TFTP	d) HTTP
34. Identify the incorr a) Bus	rect network topology, b) Star	c) P2P	d) Ring
35. Identify among networks. a) Switch	the following the net	work device used to c) Bridge	connect two dissimilar types of d) Gateway
	opular for students sma		
37. The relationship of a) Coupling	of data elements in a mobile b) Modularity	odule is called c) Cohesion	d) Granularity
• 1	oftware testing is gen b) System Testing	•	
39. Which model can a) Waterfall Model c) RAD Model	be selected if user is in	nvolved in all the phase b) Prototyping Model d) Both Prototyping N	
	umbrella" activity that in the boundary in the		he software engineering process. d) Software quality assurance
41. Which of the folloa) While loop	owing is an exit control b) For loop	lled loop? c) do-while loop	d) None of the above
42. What is the size o a) 4	f the 'int' data type (in b) 8	bytes) in C?	d) 1
43. The C++ code which causes abnormal termination/behaviour of a program should be written under block.			
a) catch	b) try	c) throw	d) finally

44. Which concept all	lows you to reuse the w	vritten code in C++?	
a) Inheritance	b) Polymorphism	c) Abstraction	d) Encapsulation
45. In java, what make	es the Java platform in	dependent?	
a) Advanced programc) Class compilation	ming language	b) It uses byte code for d) All of these	or execution
46. Which of the foll window or a viewport	_	he process of eliminat	ion of parts of a scene outside a
a) editing	b) cutting	c) plucking	d) clipping
	owing operations can om its original position		out around any axis on a three-
a) Rotation	b) Shearing	c) Scaling	d) Translation
48. The primary outpu	ut device in a graphic s	ystem is	
	b) Video monitor	=	d) Printer
	of text, graphics art, es is called	sound, animation and	video delivered by computer or
	b) Hyper media	c) Visual media	d) None of the above
50. Consider the gram	nmar G,		
$S \to AB; \qquad A \to a$	a ab ba bb;		$C \rightarrow aa \mid ab \mid ba \mid bb;$
· · · · · · · · · · · · · · · · · · ·	g string is generated by bababbab		d) babaa
a) abaab	u) vavavvav	c) aaauuuua	u) babaa