Total No. of Questions: 6

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P.T.O.

Enrollment	No
TALL WILLIE LE	1 1 1 2



Q.1

Faculty of Engineering

End Sem (Even) Examination May-2019 EN3ES05 Basic Computer Engineering

Programme: B.Tech. Branch/Specialisation: All

Duration: 3 Hrs. Maximum Marks: 60

Note: All questions are compulsory. Internal choices, if any, are indicated. Answers of Q.1 (MCQs) should be written in full instead of only a, b, c or d.

i.	Once the contents are written, cannot be modified in				
	(a) RAM (b) R	OM			
	(c) Secondary memory (d) A	ll of these			
ii.	Which of the following is not an input device?				
	(a) Joystick (b) Scanner (c) O	CR (d) None of these			
iii.	Which of the following schedu	ler is also known as process	1		
	scheduler?				
	(a) CPU scheduler (b) Jo	b scheduler			
	(c) Long term scheduler (d) M	idterm scheduler			
iv.	The job becomes process in which	of the following states	1		
	(a) New (b) Ready (c) W	aiting (d) Running			
v.	The rows if relation is also called		1		
	(a) Domain (b) Attribute (c) Tu	ıple (d) Table			
vi.	SQL is a		1		
	(a) DML (b) DDL (c) D	CL (d) All of these			
vii.	Which of the following network connects the computer system				
	across a large geographical area?				
	(a) LAN (b) WAN (c) M	AN (d) Intranet			
viii.	Which of the following is used a	network layer of OSI network	1		
	model?				
	(a) Switch (b) Gateway (c) Re	outer (d) Repeater			
ix.	Which of the following is said to be first generation language?				
	(a) Machine (b) Symbolic (c) H	gh-level (d) Assembly			

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	х.	C++ is a					1
		(a) Procedural language	e (t	o) functiona	l language		
		(c) Declarative language	ge (d	d) object-ori	iented language		
Q.2		Attempt any two:					
	i.	Draw the block diagram	m of com	nputer. Expl	ain each compo	onent.	5
	ii.	What is the purpose of input devices? Explain three input devices in detail.				5	
	iii.					?	5
Q.3		Attempt any two:					
	i.	What are the different	kinds of	data models	s?		5
	ii.	Explain the functions of	of DBA.				5
	iii.	Explain three level sch	ema arch	nitecture wit	th diagram.		5
Q.4		Attempt any two:					
	i.	Explain diagrammatica	•		*		5
	ii.	What is deadlock? What is the necessary condition for deadlock to occur?				5	
	iii.	What are the different	functions	s of a operat	ting system?		5
Q.5		Attempt any two:					
	i.	Discuss the various network.	topolog	ies commo	only used in	computer	5
	ii.	Define TCP/IP model i	in detail.				5
	iii.	Define the following te	erms:				5
		(a) Internet	(b) WWV	W	(c) E-mail		
		(d) Virus	(e) Worn	ns			
Q.6		Attempt any two:					
	i.	Explain the categories		_			5
	ii.	What are the characteristics of good programming language?			ge?	5	
	iii. Differentiate between:				5		
		(a) System software an		ation softwa	ire.		
		(b) Hardware and softw	ware.				

Marking Scheme EN3ES05 Basic Computer Engineering

) .1	i.	Once the contents are written, cannot be modified in (b) ROM				
	ii.	Which of the following is not an input device?				
		(d) None of these	1 1 1 0	4		
	iii.	Which of the following scheduler is also known as p (a) CPU scheduler	rocess scheduler?	1		
	iv.	The job becomes process in which of the following states				
		(a) New				
	v.	The rows if relation is also called		1		
		(c) Tuple				
	vi.	SQL is a		1		
		(d) All of these				
	vii.					
		a large geographical area?				
		(b) WAN				
	viii.	Ę				
		model?				
		(c) Router				
	ix.	Which of the following is said to be first generation language?				
		(a) Machine				
	х.	C++ is a		1		
		(d) object-oriented language				
2.2		Attempt any two:				
	i.	Diagram of computer	2 marks	5		
		Explanation of components	3 marks			
	ii.	Purpose of input devices	2 marks	5		
		Three input devices	3 marks			
	iii.	Memory definition	1 mark	5		
		Types of memory	1 mark			
		Explanation of types	3 marks			
2.3		Attempt any two:				
	i.	Kinds of data models		5		
		1 mark for each data model	(1 mark * 5)			

	ii.	Functions of DBA.				5
		1 mark for each functi	on		(1 mark * 5)	
	iii.	Three level schema are	chitecture		3 marks	5
		Diagram.			2 marks	
Q.4		Attempt any two:				
	i.	States of process.				5
		Diagram			2 marks	
		For explaining all state	es		3 marks	
	ii.	Deadlock			1 mark	5
		Condition for deadlock	k		4 marks	
	iii.	Functions of a operation	ng system			5
		1 mark for each functi	on		(1 mark * 5)	
Q.5		Attempt any two:				
Q. 5	i.	Topologies commonly used in computer network.				5
	1.	1 mark for each topolo	-	work.	(1 mark * 5)	·
	ii.	TCP/IP model	'6J		(1 mark 3)	5
	111.	Diagram			2 marks	
		Explanation			3 marks	
	iii.	Define the following to	erms: 1 mark for each		(1 mark * 5)	5
	1111.	_	(b) WWW	(c) E-1	,	5
		(d) Virus	(e) Worms	(C) L 1	iidii	
Q.6		Attempt any two:				
Q.0	i.	Categories of programming language.				
	1.	1 mark for each generation			(1 mark * 5)	5
	ii.	Characteristics of good programming language			(1 mark 3)	5
	11.	At least 5 points 1 mark for each		igc	(1 mark * 5)	3
	iii.	Differentiate between:			(1 mark 3)	5
	111.	(a) System software ar		0		3
		At least three difference	* *	С.	2.5 marks	
					2.3 IIIaIKS	
		(b) Hardware and soft At least three difference			2.5 marks	
		At itast unite uniterent	LES		2.3 IIIaIKS	
