Program: BE Mechanical Engineering
Curriculum Scheme: Rev2016/2012
Examination: Third Year Semester V/VI
Course Code: _____ and Course Name: ____

Time: 1 hour	Max. Marks: 50

Note to the students:- All the Questions are compulsory and carry equal marks .

Q1.	In ACVM embedded system is required to have RAM for storing	
Option A:	To store the firmware of ACVM.	
Option B:	For storing temporary variables and stack.	
Option C:		
	be changed.	
Option D:	For keyboard inputs.	
Q2.	In ACVM embedded system is required to have ROM for storing	
Option A:	Display codes	
Option B:	application codes and RTOS codes .	
Option C:	Keyboard codes	
Option D:	Welcome messages, date and birthday	
Q3.	While creating data path in custom single processor design for any declared	
Ontion A.	variable are assigned.	
Option A:	ports	
Option B:	Functional unit	
Option C:	Register	
Option D:	Memory	
Q4.	While creating data path in custom single processor design for each arithmetic operation are assigned.	
Option A:	ports	
Option B:	Functional unit	
Option C:	Register	
Option D:	Memory	
Q5.	Load and store architecture is applicable in	
Option A:	CISC	
Option B:	RISC	
Option C:	Both CISC and RISC	
Option D:	Neither CISC nor RISC DONE	
Q6.	GCD processor is an example of	

Custom single-purpose processors Ans		
Standard single-purpose processors		
Math coprocessor		
Math coprocessor I/O processor.		
Out of following, What's another name for Wi-Fi?		
801.12 networking		
801.22 networking		
802.11 networking		
802.33 networking		
What is full form of I2C?		
inter-IC		
intra-IC		
intel IC		
individual integrated chip		
SPI device communicates in		
Simplex		
Half duplex		
Full duplex		
Multi duplex		
Dhadadh is a san hair an hair		
Bluetooth is atechnology, in which devices or gadgets can be		
connected together. Wired LAN		
Wireless LAN		
VLAN		
ZLAN		
Cruise control in car relieves the driver from duty and the driver hands over the		
charge to the ACC, except following		
When road conditions are suitable		
When there are no strong winds or fog		
When there is no heavy traffic		
When in Adverse conditions		
Which out of following is not an input to the Automatic cruise control system?		
Present alignment of radar (or laser) beam emitter.		
Delay interval in reflected pulse with respect to transmitted pulse from emitter.		
Speed from speedometer		
Throttle position		

Q13.	Which of the following is a UML modelling tool?		
Option A:	Visual C++		
Option B:	Fortron		
Option C:	Rational Rose Enterprise		
Option D:	Java		
opuon 2.			
Q14.	For an embedded system, the quality attribute 'Evolvability' refers to		
Option A:	portability		
Option B:	Modifiability		
Option C:	Malleability		
Option D:	Response		
Q15.	If the MTBF of a product is very high, it refers to		
Option A:	High Availability		
Option B:	High Reliability		
Option C:	Association		
Option D:	Confidentiality		
Орион D.	Confidentiality		
Q16.	Which of the following is a structural thing in UML?		
Option A:	Class		
Option B:	Interaction		
Option C:	State Machine		
Option D:	Activity		
Q17.	In a Digital Camera, the image is captured and converted to Digital form by		
Option A:	Electrode		
Option B:	Lens		
Option C:	Charged Couple Device		
Option D:	Multiplexer		
Q18.	Huffman encoding is a scheme.		
Option A:	Maximum fixed-length encoding		
Option B:	Minimum fixed-length encoding		
Option C:	Minimum Variable-length encoding		
Option D:	Maximum Variable-length encoding		
Q19.	In real time operating system		
Option A:	must be serviced by its deadline period		
Option B:	kernel is not required		
Option C:	all processes have the same priority		
Option D:	process scheduling can be done only once task		

Q20.	Which of the following is correct in real time?		
Option A:	non preemptive kernels		
Option B:	preemptive kernels		
Option C:	preemptive kernels or non preemptive kernels		
Option D:	neither preemptive nor non preemptive kernels		
Q21.	Which one of the following is a real time operating system?		
Option A:	Windows CE		
Option B:	RTLinux		
Option C:	VxWorks		
Option D:	All of the mentioned		
Q22.	is software that allows your computer to communicate with the		
Q22.	hardware or any other device you want to install.		
Option A:	USB		
Option B:	plug n play		
Option C:	API		
Option D:	Driver		
Option D.	Diver		
Q23.	There are multiple resources in a system, each having semaphore. The processes		
1	require more than one resource for their execution. They test on the semaphore		
1	before taking the resource. Which of the following problem illustrates the presence		
İ	of a deadlock in the above situation.		
Option A:	Bounded buffer problem		
Option B:	Dining philosopher's problem		
Option C:	Both A and B		
Option D:	Deadlock cannot occur in above situation		
Q24.	Which of the following statement true for Inter-process communication		
Option A:	It is like a user defined procedure call		
Option B:	It is like a user defined function call		
Option C:	It is system call		
Option D:	It is an API		
Орион В.			
Q25.	For which of the following scheduling policy we can expect the average waiting		
<u> </u>	time to be the shortest		
Option A:	First come first served		
Option B:	Last come first served		
Option C:	Longest job first		

Program: BE Mechanical Engineering
Curriculum Scheme: Rev2016/2012
Examination: Third Year Semester V/VI
Course Code: ____ and Course Name: ____

Time: 1 hour	Max. Marks: 50

	Correct Option
Question	(Enter either 'A' or 'B' or 'C' or 'D')
Q1.	В
Q2.	В
Q3.	С
Q4	В
Q5	В
Q6	A
Q7	С
Q8.	A
Q9.	С
Q10.	В
Q11.	D
Q12.	D
Q13.	С
Q14.	В
Q15.	В
Q16.	A
Q17.	С

Q18.	С
Q19.	A
Q20.	В
Q21.	D
Q22.	D
Q23.	В
Q24.	В
Q25.	В