



"Towards ubiquitous Computing Technology" Department of Computer Engineering

Term End Exam

Programme: SE

Course Code: 210253

Branch: Computer Engineering

Duration: 1 Hour



Student PRN No.



Instructions:

Questions are of MCQs type. Question paper will be as per the format

a) Maximum Marks- 50 questions

b) Total question –25

c) 1 Mark MCQ-16question

d) 2 Marks MCQ/short questions – 11 questions

e) 4 Marks MCQ/short answer questions – 03questions.

f) For numerical based subject 2MarksMCQis also based on short numerical.

- 1. What is the size of an Interrupt Gate descriptor located in IDTut of a logic gate is 1 when all its inputs are logic The gate is either [1 M]
 - a) 64 KB

b) 8 byte

c) 1 MB

d) 32 bit

2. Task Gate ,Interrupt Gate , Trap Gate descriptors are located in ?m [1 M]

A] IDT (Interrupt Descriptor Table)

B] GDT (Global Descriptor Table)

Semester: II

Course Name: Microprocessor

Academic Year: 2019-20

Max Marks: 30





C] LDT (Local Descriptor Table) D] Task Register

3. Maskable interrupts are signalled via. [1 M]

- a) INTR pin
- b) INT pin
- c) NMI pin
- d) BUSY pin

4. When IF(Interrupt Flag) is disabled following is true? [1 M]

- a) Procedures are disabled
- b) Multitasking is disabled
- c) INTR interrupts are disabled
- d) Macros are disabled

5. What is stored in Interrupt Gate Descriptor. [1 M]

- a) Selector to segment descriptor of Interrupt Procedure segment
- b) Offset within segment of Interrupt procedure segment
- c) DPL of Interrupt Gate descriptor
- d) All of the above

6. The test register(s) that is provided by 80386 for page cacheing is? [1 M]

- a) test control registers
- b) page cache registers
- c) test control and test status registers
- d) test control and page cache registers
- 7. Among eight debug registers, DR0-DR7, the registers that are reserved by Intel are[1 M]
 a) DR0, DR1, DR2
 b) DR4, DR5
 c) DR1, DR4
 d) DR5, DR6, DR7

8. The registers that are used to store four program controllable break point addresses are [1 M]

- a) DR5-DR7b) DR0-DR1
- c) DR6-DR7
- d) DR0-DR3

9. The register DR6 holda) break point statusb) break point control information

[1 M]





c) break point status and break point control information d) none of the mentioned

10. The flag bits that indicate the privilege level of current IO operations are	[1 M]
a) virtual mode flag bits	
b) IOPL flag bits	
c) resume flag bits	
d) none of the mentioned	

11. The registers that are not available for programmers are[1 M]
a) data and address registers
b) instruction pointers
c) segment descriptor registers
d) flag registers

12. The flag that is additional in flag register of 80386, compared to that of 80286 is [1 M]a)VMb)RFc)VM,RF

d) None of the mentioned

13 TheVM (virtualmode) flag is to be set, only when 80386 is in[1 M] a)Virtual Mode

- b) protected mode
- c) either virtual or protected mode
- d) all of the mentioned

14. In protected mode of 80386, the VM flag is set by using[1 M]

a) IRET instruction

- b) Task switch operation
- c) IRET instruction or task switch operation

d) None of the mentioned

15. During the instruction cycle of 80386, any debug fault can be ignored if[1 M]a)VM flag is setb)VM flag is cleared





c)RF is cleared d)RF is set

16. The RF is not automatically reset after the execution of [1 M]

a) IRETb) POPAc) IRET and POPFd) IRET and PUSHF

17. If the 80386 enters the protected mode from the real address mode, then it returns back to the real mode, by performing the operation of? [2 M]

a) Read

b) write

c) terminate

d) reset

18. The unit that is needed for virtual mode 80386, only to run the 8086 programs, which require more than 1 Mbyte of memory for memory management functions, is. [2 M]

a) execution unitb) central processing unitc) paging unitd) segmentation unit

19. The 80386DX is a processor that supports [2 M]

a) 8-bit data operand

b) 16-bit data operand

c) 32-bit data operand

d) all of the mentioned

20. The 80386DX has an address bus of [2M]

- a) 8 address lines
- b) 16 address lines
- c) 32 address lines
- d) 64 address line

21. 80386DX is available in a grid array package of [2M]

- a) 64 pin
- b) 128 pin





- c) 132 pind) 142 pin
- 22. The operating frequency of 80386DX is [2M]
- a) 12 MHz and 20 MHz
- b) 20 MHz and 33 MHz
- c) 32 MHz and 12 MHz
- d) all of the mentioned

23. Which of the following pin when activated, allows address pipelining? [2M]

- a) ADS
- b) NA
- c) AP
- d) None of the mentioned

24. The signal that is used to insert WAIT states in a bus cycle in 80386 is[2M]

- a) HOLD
- b) HLDA
- c) READY
- d) PEREQ

25. The signal which indicates to the CPU, to fetch a data word for the coprocessor is

- a) READY
- b) NMI
- c) HLDA
- d) PEREQ

26. The instruction that stores a copy of top of the stack into the memory, and pops the top of the stack is [2M]

- a) FST
- b) FSTP
- c) FIST
- d) FLD





27. If the result is infinity, then the exception generated is [2M]

a) overflow

- b) invalid operation
- c) denormalized operand
- d) zero divide

28.If the result is rounded according to the rounding control bits, then the exception generated is

a) denormalized operand [4M]

b) underflow

c) inexact result

d) invalid operation

29. The exception generated for a too big result to fit in the format is [4M]

- a) invalid operation
- b) overflow
- c) denormalized operand
- d) result overflow

30. Invalid operation is the exception generated due to[4M]

- a) stack overflow
- b) stack underflow
- c) indeterminate form as result
- d) all of the mentioned