

MAHATMA GANDHI UNIVERSITY
D.D.M.C.A DEGREE EXAMINATION
MODEL QUESTION PAPER

Third Semester

DMCA 301 Computer Organization & Architecture

Time: Three Hours

Maximum: 75 Marks

Part A

Answer any ten questions

All questions carry equal marks

- 1 What is an instruction register?
- 2 Explain opcode and operands with example.
- 3 Explain software interrupts and their implementation.
- 4 What is memory interleaving?
- 5 Explain Cache Coherency problem.
- 6 List the elementary operations required to execute one instruction.
- 7 Explain pipelining with example.
- 8 Explain interrupt nesting.
- 9 Classify multiprocessors with explanation.
- 10 What is virtual memory?
- 11 List the steps involved in fetching a word from memory.
- 12 Explain exception with example.

(10 * 3 = 30 marks)

Part B

Answer all questions.

All questions carry equal marks.

13(a). Explain different addressing modes with relevant examples.

OR

(b).(i) Explain Subroutine Nesting with example.

(ii) Explain different types of I/O mapping with suitable examples.

14(a). Explain the use of interrupts in Operating Systems.

OR

(b). Explain with example Booth's algorithm for multiplication of 2's complement signed operands.

15(a). Explain along with figure the Internal Organization of a Memory Chip.

OR

(b) Discuss the Replacement Algorithms for Cache Memories.



16(a). Explain the working of Direct Memory Access(DMA).

OR

(b). Explain the working of hardware interrupts and vectored interrupts.

17(a). Explain Flynn's classification of parallel structure along with the diagram.

OR

(b). Explain with example and suitable diagrams the pipelining as a means for executing machine instructions concurrently.

(5 X 9 = 45 marks)



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MODEL QUESTION PAPER

Third Semester

DMCA 305 Visual Programming

Time: Three Hours

Maximum: 75 Marks

Part A

Answer any ten questions

All questions carry equal marks

- 1 What is Event driven programming?
- 2 What is the difference between Checkbox and Option button?
- 3 Explain the tasks supported by Debug tool in VB.
- 4 What do you mean by an MDI form?
- 5 What is RecordSet object?
- 6 Explain tag with suitable example.
- 7 What is Document Object?
- 8 Differentiate between ActiveX DL and ActiveX EXE.
- 9 Write about MsgBox and InputBox functions
- 10 Explain about ADO data control.
- 11 Explain the steps to be followed to prepare reports using Crystal reports with example
- 12 Differentiate between Scrollbar and Slider control

(10 * 3 = 30 marks)

Part B

Answer all questions. All questions carry equal marks.

- 13 (a) Explain briefly about the concept of event driven programming.

Or

- (b) Explain the features of Visual basic IDE.

- 14 (a) Explain the looping statements in VB.

Or

- (b) Explain about the error handling functions.

- 15 (a) Explain forms and controls in VB

Or

- (b) Discuss the database connectivity with example.

- 16 (a) Explain about the crystal reports.

Or

- (b) Explain about Active X, Active EXE, ActiveX DLL

- 17 (a) Explain about the HTML structure.

Or

- (b) Explain about the DHTML and HTML documents.

(5 X 9 = 45 marks)

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D.D.M.C.A DEGREE EXAMINATION
MODEL QUESTION PAPER

Third Semester

DMCA 305 Visual Programming

Time: Three Hours

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