B. Sc. IT Programme

4thSemester

Subject: Computer Organization & Architecture (BIT-401)

Time Allowed: 2½ Hours

Session: April, 2015

Maximum Marks: 80

Min Pass Marks: 32

Note: Attempt all questions from Section A& B and only two questions from Section C.

SECTION-A: (Very short answer type questions to be answered in about 20 words each.)

8×2=16

1. i)   What is Word Size?
   ii) Define Program Counter.
   iii) What is Direct Addressing?
   iv) Write any two I/O instructions.
   v)   What is the function of Control Unit?
   vi) Name any two Addressing Modes.
   vii) What is a Synchronous Communication?
   viii) What is Dynamic RAM?

SECTION-B: (Short answer type questions to be answered in about 250 words each.)

4×8=32

2. Explain the Following:
   a) Stack pointer
   b) Status Register
   c) Word Length
   d) Accumulator

3. Explain briefly various types of Addressing Modes.

4. Give brief account on I/O organization.

5. With a neat sketch explain the working principle of DMA.

SECTION-C: (Long answer type questions to be answered in about 500 words each.)

2×16=32

6. Discuss in detail various types of registers.

7. Discuss various types of Instruction formats with examples.

8. Discuss in Detail the organization of simple and floating point ALU.

9. What is the purpose of Virtual Memory? Explain briefly the concepts of Paging and Page Replacement.

*****

Examination: B. Sc. IT
Subject: Computer Oriented Numerical Methods(BIT-402)
Time Allowed: 2½ Hours

Semester : 4th
Maximum Marks: 80
Min Pass Marks: 32

Section A: Very Short Answer Type to be answered in about 20 words

Q1.   { Marks: 8x2=16}

i.   What is an approximate value?
ii.   What is a Truncation error?
iii.   Where is Secant Method Used?
iv.   Write the equation for Newton Ramphson Method?
v.   What do you understand by back substitution?
vi.   Which method is also called as Liebmann method?
vii.   Give an example of Explicit Iterative Method?
viii.   What does Heuns method state?

Section B: Short Answer Type to be answered in about 250 words

{Marks: 4x8=32}

Q2.   Explain various major pitfalls in Computer Based Numerical Computing?
Q3.   Write an Algorithm for Method of False Position? Write proper Documentation for the code.
Q4.   Explain Gauss Siedal Method in detail?
Q5.   Write an Algoritm for RungeKutta second order differential Equation? Write proper documentation for the Code?

Section C: Long Answer Type to be answered in about 500 words

{Marks: 2x16=32}

Q6.   Explain in detail the various major requirements for solving a problem using a computer?

Q7.   Apply Secant Method to $f(x) = x^2 - 3$

Q8.   Solve the equation using Gauss Elimination Method?
$2x + 4y + 6z = 4$
$1x + 5y + 9z = 2$
$2x + 1y + 3z = 7$

Q9.   Compute f (0.4) for the data shown in the table below using Lagrange's interpolating formula.

x	0	1	3	4	7
f(x)	1	3	49	129	813

. . . .

4th Semester
Course/ Title: Internet Technologies & E-commerce- [403]   May, 2015
Time Allowed: 2 ½ Hours   **Maximum Marks: 80**
                                                        Min Pass Marks: 32

NOTE: *Attempt all questions from Section A & B and only two questions from Section C*

Section A: Very short answer type questions to be answered in 20 words.   (8×2=16)

Q.1:   i)   Name latest internal Browser.
         ii) Define "WWW".
         iii) What are the functions of Modem?
         iv) Define OL and LI tags.
         v)   Define legend tag in a table
         vi) Define field set tag.
         vii) Define cell Padding.
         viii) Define Multimedia Optimization.

Section B: Short type answer type questions to be answered in 250 words.   (4×8=32)

2.   Explain briefly FTP and TELENT.
3.   Explain various types of lists in HTML.
4.   Explain various form fields in HTML.
5.   Explain briefly how to control the position of text and images on web page

Section C: Long answer type questions to be answered in about 500 words.   (2×16=32)

6.   Explain E-commerce and its architecture in detail
7.   Explain the structure of HTML program and also mention various stages used in these sections.
8.   Explain in detail the form tag other tags associated with it.
9.   Explain the techniques to optimize the fonts, table and hyperlinks.
                        ****

B.Sc. IT.
May, 2015

4th Semester
Title/Course No. : Principles of Management (BIT-404)
Time Allowed: 2 ½ Hours

Maximum Marks: 80
Min. Pass Marks: 32

Note: Attempt all questions from Section A & B and only two questions from Section C.

Section A: Very short answer type questions to be answered in 20 words.

(8 x 2= 16)

1. i)   Define Management as an art.
    ii)   What is systems approach to Management.
    iii)   What do you mean by MBO.
    iv)   What is a rational decision.
    v)   What is informal organization.
    vi)   What is decentralization of authority.
    vii)   What is internal source of recruitment.
    viii)   What is effective leadership.

Section B: Short type answer type questions to be answered in 250 words.

(4 x 8 = 32)

2   Explain different principles of Management.
3.   Discuss the nature and significance of planning.
4.   Describe different types of organization.
5.   Explain different techniques of the control.

Section C: Long answer type questions to be answered in about 500 words.

(2 x 16 =32)

6.   Critically examine the scientific theory of Management.
7.   Discuss the nature and types of Decision-making.
8.   Describe different types of organizational structures.
9.   Explain the nature and characteristics of an effective leadership.

/////////