01944

B.TECH. (AEROSPACE ENGINEERING) (BTAE)

Term-End Examination

June, 2011

BAS-006 : COMPUTER FUNDAMENTALS

Time : 3 hours   *Maximum Marks : 70*

*Note :   Question 1 is **compulsory**. Solve **any six** questions from Q. 2 to Q. 10.*

1.   Answer the following objectives :   10x1=10

(a)   RAM is called as _____.

(b)   Track is also called as _____.

(c)   Give two examples of system software.

(d)   Program control register contain the address of next instruction which is to be executed. (True/False)

(e)   Array contain the similar data type of elements (True/False)

(f)   MS - Word is the example of _____ software.

(g)   Magnetic disk is the most popular direct access storage device (True/False)

(h)   Write a long form of EPROM.

(i)   Convert into decimal number $(A2B.D4)_{16}$

(j)   What is Abs function in MS - Excel.

2. (a) Write the history of computers. 6

(b) Briefly explain the access mechanism of disk 4
pack.

3. (a) Write a program to print the table of given 5
number.

(b) Write a program to find the factorial of 5
given number.

4. (a) Write a short note on an optical disk. 4

(b) Define : 6

(i) Seek time

(ii) Latency

(iii) Transfer rate

5. (a) Convert hexadecimal to binary. 4

(i) $(2AB)_{16}$ (ii) $(ABC)_{16}$

(b) Convert decimal to hexadecimal. 6

(i) $(428)_{10}$

(ii) $(100)_{10}$

(iii) $(255)_{10}$

6. (a) What is a register ? Explain the function of 5
each register from microproccessor.

(b) Explain make directory and change 5
directory commands in Unix.

7. (a) Explain the concept of array in 'C'. 5

   (b) Write a program to find out maximum number from array. 5

8. (a) Write the different application of DBMS. 5

   (b) Give the list of navigation and directory control commands of unix. 5

9. (a) Explain edit menu of Microsoft Word. 5

   (b) Define different types of key in DBMS. 5

10. (a) Multiply the binary numbers 1010 and 1001. 2

    (b) Divide $(11001)_2$ by $(101)_2$ 2

    (c) Subtract $(011011)_2$ from $(110111)_2$ using complementary method. 4

    (d) Find the complement of : 2

        (i) $(495)_{10}$

        (ii) $(29)_{10}$