

**B.TECH. IN AEROSPACE ENGINEERING (BTAE)**

**Term-End Examination**

**December, 2011**

**BAS-006 : COMPUTER FUNDAMENTAL**

*Time : 3 hours*

*Maximum Marks : 70*

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**Note :**      *Question 1 is compulsory.*  
                 *Attempt **any 6** questions from the remaining.*

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- 1. Answer the following : 10×1=10**
- (a) Explain MOD function of MS-Excel.
  - (b) Magnetic tape is the example of sequential access method (True/False.)
  - (c) Give the example of two input devices.
  - (d) What is the full form of 'DBMS'.
  - (e) 'Find' and 'Replace' option is available in Edit menu (True/False.)
  - (f) 'Array' is the basic data type of 'C'. (True/False.)
  - (g) Floppy disk is the example of an optical disk (True/False.)
  - (h) Write any two default icon.
  - (i) ENIAC stands for \_\_\_\_\_
  - (j) Convert  $(67)_8$  to decimal.

2.	(a)	What are the characteristics of computer ?	6
	(b)	Explain the access mechanism of optical disk.	4
3.	(a)	Write a program to check whether the given number is even or odd.	5
	(b)	Write a short notes on 'looping'.	5
4.	(a)	Draw a block diagram of computer and explain it in detail	7
	(b)	What is a cache memory ?	3
5.	(a)	Find the complement of the following binary numbers :	5
	(i)	011011	
	(ii)	10110001	
	(iii)	101	
	(iv)	01010	
	(v)	0111	
	(b)	Divide $(1101)_2$ by $(101)_2$	5
6.	(a)	A disk pack consist of 8 disk plates each plate has 500 tracks and there are 100 sectors per track. If 512 bytes can be stored per sector calculate the total number of bytes, which can be stored.	6
	(b)	What is DBMS ? How it differs from RDBMS ?	4

7. (a) Describe in detail the 'mail merge'. 6  
(b) Differentiate between "impact" and "non impact". printer. 4
8. (a) Write SQL commands/verbs/clause with one example each : 6  
(i) Create  
(ii) insert  
(iii) delete table  
(b) Explain 'Sum function' of microsoft Excel. 4
9. (a) What are the advantages of using functions in 'C' programming ? Write a function for addition of given two numbers. 6  
(b) Brief explain the term 'array'. 4
10. (a) Draw the unix file system structures and explain it in brief. 5  
(b) Explain any two commands of 'unix'. 5
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