BAS-006

B.Tech. AEROSPACE ENGINEERING (BTAE)

Term-End Examination

00219

June, 2017

BAS-006 : COMPUTER FUNDAMENTALS

Time : 3 hours   *Maximum Marks : 70*

Note : *Attempt any* **seven** *questions. All questions carry equal marks.*

1. (a) Define a 'computer system'. What are the important characteristics of a computer ?

   (b) Describe in brief the various generations of computers.   *2×5=10*

2. (a) What is a virus ? How can we remove a virus from a computer ?

   (b) Discuss the Do's and Don'ts for taking care of the hardware of a computer.   *2×5=10*

3. (a) (i) Convert the following binary number to decimal number :

   $(1101011)_2$

   (ii) Convert the following octal number to binary number :

   $(2614)_8$

(iii) Convert the following hexadecimal to binary number :

$$(2AC)_{16}$$

(iv) Add the binary numbers $(1010110)_2$ and $(1011010)_2$.

(v) Subtract $(56)_{10}$ from $(92)_{10}$ by using complementary method. *5×1=5*

(b) Write the full forms of the following abbreviations : *5×1=5*

(i) ENIAC

(ii) EDVAC

(iii) RAM

(iv) UNIVAC

(v) ROM

4. (a) Discuss in brief, the operating system.

(b) What are the different options available in the 'File menu' of MS-Word ? *2×5=10*

5. (a) What are the different types of memories ?

(b) Explain a 'database file', a 'record' and a 'field'. *2×5=10*

6. (a) Describe the different features of 'Control Panel' in a computer.

(b) What are the applications of 'Paint' features ? How can you access it ? *2×5=10*

7. (a) Describe the constituents and functions of the Central Processing Unit of a computer.

   (b) What are the functions of a Database Management System ? *2×5=10*

8. (a) Write a C program to write their values in the ascending order, for the given three numbers A, B and C.

   (b) Write a C program that gives the user the option of converting Fahrenheit to Celsius **OR** Celsius to Fahrenheit and depending upon the user's choice carries out the conversion. *2×5=10*

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