BAS-006

B.Tech. AEROSPACE ENGINEERING (BTAE)

Term-End Examination

December, 2016

BAS-006 : COMPUTER FUNDAMENTALS

Time : 3 hours

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Maximum Marks : 70

Note: (i) Attempt any seven questions. (ii) All questions carry equal marks.

- 1. (a) Describe a computer system with the help
of block diagram.2x5=10
 - (b) What is the difference between 'sorting a database file' and 'indexing a database file' ? What are the advantages and disadvantages of these two methods ?
- (a) What is a mail merge operation ? What are files that you have to prepare for mail merge operation ? 2x5=10
 - (b) What are the features available in fifth generation computers ?
- 3. (a) Draw a flow chart to input six numbers and print their arithmatic mean. 2x5=10
 - (b) What are the limitations of a computer ?

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- 4. (a) Determine the decimal equivalent of 5x2=10
 - (b) Determine the octal equivalent of $(359)_{10}$
 - (c) Determine the decimal equivalent of (127662)₈
 - (d) Determine the hexadecimal equivalent of (11001011)₂
 - (e) Determine the octal equivalent of $(2B6)_{16}$
- 5. (a) What is the difference between RAM and ROM ? 2x5=10
 - (b) Discuss the functions of MS word.
- 6. (a) Explain the difference between "SAVE" and "SAVE AS". 2x5=10
 - (b) Describe in brief the uses of DBMS.
- 7. (a) Enlist different Input and Output devices.
 - (b) Draw a sketch showing layout of a MS Excel worksheet. Explain the 'Sort' feature in MS Excel. 2x5=10
- 8. (a) Write a C programme to calculate and print the roots of a quadratic equation 2x5=10 $ax^2 + bx + c = 0$
 - (b) Write a C programme to calculate and print the sum of the series, taking input as x and N.

Sum = $1 - x + \frac{x^2}{2} - \frac{x^3}{3} + \frac{x^4}{4} - \frac{x^5}{5} + \dots + \frac{x^N}{N}$.

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