

AE-808

M.A./M.Sc. (Final)
Term End Examination, 2016-17

MATHEMATICS

Optional

Paper - II

Fundamental of Computer Science and Data Structure

Time : Three Hours] [Maximum Marks : 100
[Minimum Pass Marks : 36

Note : Answer any **five** questions. All questions carry equal marks.

1. Write a short note on 'Structure of Computer'.
2. Define Operating System and write its functions and objectives.
3. What do you understand by Error detection and Correction codes ?

(2)

4. How does physical devices used to construct memory ?
 5. Explain in detail about Online and Real Time Operating System.
 6. Explain in detail about Arithmetic Expression (Polish notation).
 7. Write a short note on 'Computer Network Technology'.
 8. Explain Bubble sort and Heap sort in detail.
 9. Explain fixed point and floating point representation of overflow and underflow condition using 7-bit and 8-bit register by giving example.
 10. What do you understand by Binary Search tree ? Explain its properties.
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