

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.