

**Bharati Vidyapeeth**  
**(Deemed to be University), Pune**  
**School of Distance Education**

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**Assignment No.: 1**

<b>Course:</b>	<b>BCA</b>	<b>Class:</b>	<b>BCA I</b>	<b>Semester:</b>	<b>II</b>
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<b>Subject:</b>	<b>C Programming - II</b>
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**Q.1) Attempt ANY ONE of the Following (1000 Words) (10)**

- a) What is Queue? What are the different types of queue? Explain in detail.  
Discuss the need of file. What are the different operations supported in
- b) file handling.

**Q.2) Attempt ANY TWO of the Following (800 Words) (12)**

- a) Explain working of merge sort with algorithm and example. Provide mathematical analysis for calculating efficiency.
- b) Describe the working of Hash Table.
- c) What are the different Basic Tree Traversal methods.
- d) Discuss the Operations on stack

**Q.3) Write Short Notes on (ANY TWO) (08)**

- a) Linear Search
- b) Circular List
- c) Multidimensional array
- d) ADT

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