



YASHWANTRAO CHAVAN MAHARASHTRA OPEN UNIVERSITY, NASIK

HOME ASSIGNMENT - (2016-17)

B.C.A. (P131) NEW

Instructions for the Students:

- 1) All Questions are compulsory.
 - 2) Each Sub-question carries 5 marks.
 - 3) Each Sub-question should be answered between 75 to 100 words. Write every question's answer on separate page.
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English Communication (AEC001)

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| Q.1. Write the steps in effective communication. | 5M |
| Q.2. How to develop the ethical solution? | 5M |
| Q.3. Why working in the group is beneficial? Explain in brief. | 5M |
| Q.4. Write a short note on need of team leader. | 5M |

Mathematics (CMP501)

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| Q.1. Explain Venn diagrams with neat diagram. | 5M |
| Q.2. What is recursion? Explain with example. | 5M |
| Q.3. What is vector and also explain types of vector? | 5M |
| Q.4. write short note on permutation and combination. | 5M |

Problem Solving using Computers (CMP502)

- Q.1. Draw the hierarchy of memory in computer. 5M
- Q.2. List and explain the operators in c. 5M
- Q.3. What is decision making and looping in c? 5M
- Q.4. Define string and string functions. 5M

Programming using C++ (CMP503)

- Q.1. Explain the features of OOP. 5M
- Q.2. Define the constructor and types of constructors. 5M
- Q.3. What is Inheritance and its types in detail? 5M
- Q.4. Explain the Exception handling in OOP? 5M

Environmental Studies (ENV121)

- Q.1. Write a short note on renewable and non-renewable resources. 5M
- Q.2. Explain the structure and functions of an ecosystem. 5M
- Q.3. What is soil pollution? How to prevent it? 5M
- Q.4. What is intellectual property rights? 5M

Statistics (CMP504)

- Q.1. What is skewness and kurtosis ? 5M
- Q.2. Write short note on applications of correlation in various fields. 5M
- Q.3. Explain Baye's theorem in detail. 5M
- Q.4. What is Hypothesis? Explain its types. 5M

Data structure using C ++ (CMP505)

- Q.1.what is sorting ? Explain the bubble sort with example. 5M
- Q.2. What is time and space complexity of algorithm? 5M
- Q.3. Explain the asymptotic notations. 5M
- Q.4. Define queue and explain its types. 5M

Computer Networks (CMP506)

- Q.1.What is network topology? Explain types of topology. 5M
- Q.2. Draw and explain the architecture of OSI layer. 5M
- Q.3.What is the goal of security? 5M
- Q.4. Write a short note on IDS. 5M