Yashwantrao Chavan Maharashtra Open University
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Bachelor of Computer Application

B.C.A P131

Session :December 2022

IMPORTANT INSTRUCTIONS

1. Submit your assignments to the Coordinator of your Study Centre on or before the due date.

2. Assignment submission before due dates is compulsory to become eligible for appearing in corresponding End Examinations.

3. To become eligible for appearing the End Practical Examination for the lab courses, it is essential to fulfil the minimum attendance requirements as well as submission of assignments (on or before the due date).

4. The viva voce is compulsory for the assignments.

5. For any course, if a student submitted the assignment and not attended the viva-voce, then the assignment is treated as not successfully completed and would be marked as ZERO.

Academic Coordinator

Evaluation Division

Semester 1

Course code-AEC001, CMP501, CMP502, CMP503

P131/AEC001

1) What is Informal communication?
2) What are the features of effective communication?
3) Discuss the process of communication
4) How to overcome barriers in communication?

P131/CMP501

1) Define combination .write down properties of combination.
2) What is role of mathematics in computer science?
3) Explain the term triangular matrix
4) Explain planer graph.

P131/CMP502

1) Explain the basic structure of the C program with an example.
2) What is the use of Break and continue?
3) Define Recursion. Write a recursive function to find out the factorial of a number.
4) Define union. Explain how to declare and access union members.

P131/CMP503

1) Write Basic Structure of C++ Programme.
2) Write a short note on Manipulator with example.
3) Explain Inline Function with syntax.
4) What is Object Oriented Programming?

Semester 3

Course code-ICT 151, CMP507, CMP508, CMP509

P131/ICT151

1) Write a short note on E-Learning.
2) Describe the need of spreadsheet.
3) List the various social media applications.
4) What is Cyber Security?

P131/ CMP507

1) Define operating system and list the basic services provided by operating system
2) What is paging? Discuss basic paging technique in details.
3) Define DMA (Direct Memory Access) controller. Explain its working
4) Explain context-switching with its advantages.

P131/ CMP508

1) Explain in brief web development cycle
2) What are the Events associated with Keyboard?
3) Explain basic rules of web page design.
4) Define Classes and Pseudo classes.

P131/ CMP509

1) Define the Overall System Structure of Database Management System
2) What is Normalization? Why we need normalization
3) Explain ACID properties with the example
4) What is an attribute? Explain any two types of attributes

P131/ CMP332

1)   i)   A grocer has a sale of Rs. 6435, Rs.6927, Rs.6855, Rs.7230 and Rs.6562 for 5 consecutive months. How much sale must he have in the sixth month so that he gets an average sale of Rs. 6500?

A)   4991   B)   5991

C)   6001   D)   6991

E) None of these

ii)   The average weight of 8 person's increases by 2.5 kg when a new person comes in place of one of them weighing 65 kg. What might be the weight of the new person?

A)   76 kg   B)   76.9 kg

C)   85 kg   D)   Data inadequate

E)   None of these

2)   i)   A train passes a station platform in 36 seconds and a man standing on the platform in 20 second If the speed of the train is 54 km/hr, what is the length of the platform?

A) 120m   B) 240m
C) 300m   D) None of these

ii) A train running at the speed of 60 km/hr crosses a pole in 9 seconds. What is the length Of the train?

A) 120 meters   B) 180 meters

C) 324 meters   D) 150 meters

3)   i) A vendor bought toffees at 6 for a rupee. How many for a rupee must he sell to gain 20%?

A) 3   B) 4
C) 5   D) 6
E) None of these

ii) The cost price of 20 articles is the same as the selling price of x articles. If the profit is 25%, then the value of x is:

A) 15   B) 16
C) 18   D) 25

E) None of these

4)   i) A 6% stock yields 8%. The market value of the stock is:
        A) Rs. 48   B) Rs. 75
        C) Rs. 96   D) Rs. 133.33
      ii) A man invested Rs. 4455 in Rs. 10 shares quoted at Rs. 8.25. If the
      rate of dividend be 12% his annual income is:
        A) Rs. 207.40   B) Rs. 534.60
        C) Rs. 648   D) Rs. 655.60

P131/CMP513

1) Define the term Network and Internet
2) State the term World Wide Web.
3) Define the term Online Marketing
4) Define the term Virtual Value Chain.

P131/CMP514

1) What is a Servlet Filter? Explain life cycle
2) Explain JSON Syntax & Data types
3) Explain handling of runtime exceptions
4) Explain POP, SMTP and IMAP protocols.

P131/CMP515

1) Explain Kernel in Linux operation system.
2) Explain Network Configuration Tool.
3) How to configure NFS?
4) Write a note on enabling and disabling services