

SEM-1



CHHATRAPATI SHIVAJI MAHARAJ UNIVERSITY
MTHG1000-1

BCA/BCA -DATA SC./BSC-CS/BSC-IT

Roll No.:

Sem: BCA/BCA -DATA
SC./BSC-CS/BSC-IT-
SEM1

Date:

Time:3 hrs

Course: MTHG1000- ENGINEERING MATHEMATICS-I

Mark(s):70

Part A


[10*2=20]

Q.No	Question	
1	Define Sets with example.	[2]
2	If set $A = \{1, 3, 5\}$, $B = \{2, 4, 6\}$ and $C = \{0, 2, 4, 6, 8\}$. Then write the universal set for all three sets.	[2]
3	Define differentiation with example.	[2]
4	find the derivative of $(x+2)(x+3)$	[2]
5	Define Integraton with example.	[2]
6	Integrate $5x \sqrt{x}$	[2]
7	Define differential equation with example	[2]
8	What is determinant.Give an example.	[2]
9	Define complex number with example.	[2]
10	If $A = 2+3i$ and $B = 4+6i$ then find $A - B$	[2]

Part B

[5*10=50]

Q.No	Question	
11.1	Let A and B be two finite sets, Such that $n(A)=28$, $n(B)=20$, $n(A \cup B)=36$. Find $n(A \cap B)$	[10]
	(or)	
11.2	There are 35 students in art class and 57 students in dance class. Find the number of students who are either in art class or in dance class. • When two classes meet at different hours and 12 students are enrolled in both activities. • When two classes meet at the same hour.	[10]
12.1	(a) if $f(x) = 1/(3x+4)$, find $f'(2)$, (b) $y = 3/x + 5\sqrt{x} + 7 \log x$ find dy/dx	[10]
	(or)	
12.2	If $y^2 = 4ax$, prove that $d^2y/dx^2 + 4a^2/y^3 = 0$	[10]
13.1	(a) Evaluate $\int_1^2 (5x+2)(3x-1)dx$ (b) Find the integral of $\int \sqrt{1-\sin 2x} dx$	[10]
	(or)	
13.2	Evaluate (a) $\int \sin(3x+5)dx$ (b) find a if $\int_a^1 (x+1) dx = 7/2$	[10]
14.1	Find $A^2 + 5A + I = 0$ if $\begin{bmatrix} 5 & 1 \\ -2 & 4 \end{bmatrix}$	[10]
	(or)	
14.2	Find $3A+2B$ If $A = \begin{bmatrix} 2 & 3 \\ -2 & 5 \end{bmatrix}$ $B = \begin{bmatrix} 4 & 0 \\ 1 & 7 \end{bmatrix}$	[10]
15.1	Express the following in a+ib form: $2-i/5+3i$	[10]
	(or)	
15.2	If $(3+i)x + (1-i)y = 1+7i$, find x and y	[10]

	CHHATRAPATI SHIVAJI MAHARAJ UNIVERSITY CSAB1010A BACHELOR OF COMPUTER APPLICATIONS	Roll No.: Sem: BCA Bachelor of Computer Application - SEM1 Date: Time:3 hrs
Course: CSAB1010- C PROGRAMMING		Mark(s):70

Part A [10*2=20]

Q.No	Question	
1	Draw the flowchart and write a C program to compute simple interest	[2]
2	Define Algorithm. Write an algorithm to find the area and perimeter of a circle	[2]
3	Explain the basic structure of a C program with an example	[2]
4	Write and explain the basic concepts of a C program	[2]
5	What is type conversion? Explain two types of conversion with examples	[2]
6	What are the formatted input and output functions. Explain with examples	[2]
7	What is the purpose of scanf() and printf() statement ?	[2]
8	List the differences between while loop and do-while loop. write a C program to find sum of Natural numbers from 1 to N using for loop	[2]
9	Explain the difference between array and structures	[2]
10	Explain the different elements of user defined functions in detail	[2]

Part B [0*10=0]

Q.No	Question	
11.1	Explain the following operators in C language i) Relational ii) Logical iii) Conditional (or)	[10]
11.2	Write a C program that computes the size of int, float, double and char variables	[10]
12.1	What are unconditional control statements? Explain any two with syntax and example (or)	[10]
12.2	Write a C program which takes as input p,t,r. Compute the simple interest and display the result	[10]
13.1	Explain with syntax , the different loops used in C program (or)	[10]
13.2	What is array ? Explain the declaration and initialization of one dimensional and two dimensional array with an example	[10]
14.1	What is Union? Explain the C syntax of structure declaration with example (or)	[10]
14.2	Explain the concept of Dynamic Memory Allocation with examples.	[10]
15.1	Explain different classification of user defined functions based on parameter passing and return type with examples (or)	[10]
15.2	What is string ? Write a C program that reads a sentence and prints the frequency of each of the vowels and total count of consonants?	[10]

	CHHATRAPATI SHIVAJI MAHARAJ UNIVERSITY CSAB1020-B BCA/BSC(CS)/BSC(IT) BCA -TCS	Roll No.: Sem: BBKA/BSC(CS) /BSC(IT) BCA -TCS- SEM1 Date: Time:3 hrs
Course: CSAB1020- COMPUTER FUNDAMENTAL & OFFICE AUTOMATION		Mark(s):70
Instruction: Read all Questions carefully. Attempt all questions from Part A and Part B.		
Part A		
[10*2=20]		
Q.No	Question	
1	What is the function of an ALU?	[2]
2	What is the function of memory?	[2]
3	Write down the rules of Drawing Flowcharts for Algorithms.	[2]
4	How to Create a Flowchart for Algorithm.	[2]
5	Paintbrush is used for what explain?	[2]
6	What is taskbar?	[2]
7	How do you freeze panes in Excel?	[2]
8	What is power point used for?	[2]
9	What are the basic components of Linux?	[2]
10	Name the Linux loader.	[2]
Part B		
[5*10=50]		
Q.No	Question	
11.1	Discuss the various generations of computers.	[10]
(or)		
11.2	Write the significant features of monitor.	[10]
12.1	Write the algorithm to Determining the Largest Number Among All the Entered Integers.	[10]
(or)		
12.2	Make the flowchart to find the Fibonacci series till term ≤ 100 .	[10]
13.1	How does MS-word work?	[10]
(or)		
13.2	Explain the word formatting in detail.	[10]
14.1	How will you write the formula for the following? - Multiply the value in cell A1 by 10, add the result by 5, and divide it by 2.	[10]
(or)		
14.2	Write the steps to add a filter to a table?	[10]
15.1	Explain the following commands: a) LS b) Copy c) Ren d) CD e) RD	[10]
(or)		
15.2	Explain some MS-Dos commands you have used.	[10]



CHHATRAPATI SHIVAJI MAHARAJ UNIVERSITY
MGTG1000-A

BACHELOR OF COMPUTER APPLICATIONS

Roll No.: 220466
Sem: BCA Bachelor of
Computer Application -
SEM1
Date:
Time: 3 hrs

Course: MGTG1000- PRINCIPLES OF MANAGEMENT-I

Mark(s): 70

Instruction: Read all questions carefully. Attempt all questions from Part A and Part B.

Part A

[10*2=20]

Q.No	Question	
1	Define – Management.	[2]
2	Write some characteristics of Management.	[2]
3	What is planning?	[2]
4	Define – Objectives.	[2]
5	Define – Organizing	[2]
6	Define – Authority	[2]
7	What is communication?	[2]
8	State the need for communication.	[2]
9	Define – Control	[2]
10	What are the types of control?	[2]

Part B

[0*10=0]

Q.No	Question	
✓11.1	Explain the different Business organization (or)	[10]
✓11.2	Discuss the contribution of Henry Fayol Management.	[10]
✓12.1	What is planning? Explain the various steps involved in Planning. (or)	[10]
12.2	Explain the Planning Premises.	[10]
✓13.1	Explain the nature and purpose of organization. (or)	[10]
✓13.2	Explain the qualitative forecasting.	[10]
✓14.1	Explain types of Communication. (or)	[10]
14.2	List the rules of Effective Communication.	[10]
✓15.1	Explain the steps in the process of controlling. (or)	[10]
✓15.2	What are the requirements for effective controlling?	[10]



CHHATRAPATI SHIVAJI MAHARAJ UNIVERSITY
ENGG1000-A
BACHELOR OF TECHNOLOGY IN CIVIL ENGINEERING

Roll No.:
Sem: B Tech CIVIL-SEM1
Date:
Time:3 hrs

Course: ENGG1000- ENGLISH COMMUNICATION SKILLS

Mark(s):70

Instruction: Read all questions carefully. Attempt all questions from Part A & Part B.

Part A

[10*2=20]

Q.No	Question	
1	What are the barriers of communication?	[2]
2	What is communication?	[2]
3	What style is used in technical writing?	[2]
4	What are the etiquettes of email writing?	[2]
5	Write the parts of a letter in a chronological order.	[2]
6	What is closed punctuation style in letter writing?	[2]
7	What is sentence?	[2]
8	One word substitution- Established rules of conduct.	[2]
9	Why is teamwork an important life skill?	[2]
10	Which is the most important step of the decision-making process?	[2]

Part B

[5*10=50]

Q.No	Question	
11.1	Discuss the importance of communication skills	[10]
	(or)	
11.2	Explain linguistic and semantic barriers with suitable examples.	[10]
12.1	Discuss various features of good language.	[10]
	(or)	
12.2	Discuss the format and structure of reports.	[10]
13.1	As a sports secretary of your university, write a letter to a sports dealer making enquiries about prices of sports gear for cricket, badminton, tennis and chess. Give details of quality and quantity of goods required and set a deadline for reply. (Use Modified Block Style).	[10]
	(or)	
13.2	You have received a letter of enquiry about the prices and quality of gears and equipments required. Write an order letter mentioning the prices and quality and quantity of the equipments. (Use Semi-block style)	[10]
14.1	Discuss various types of sentences.	[10]
	(or)	
14.2	Write any five examples of homophones words (Write a sentence on each word)	[10]
15.1	Explain the process of communication.	[10]
	(or)	
15.2	Discuss the importance of body language in communication.	[10]