



**K.L.E. Society's
Raja Lakhamagouda Science Institute
(Autonomous)
BELAGAVI.**

SUBJECT

**BCA I - Semester
Dec-2016**

QUESTION PAPER BOOKLET



Reg. No.

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KLE Society's

**Raja Lakhamagouda Science Institute (Autonomous),
Belagavi.**

**First Semester BCA Degree Examination Dec- 2016
A04: ADDITIONAL ENGLISH**

Duration: 3 Hrs

Max Marks: 70

I. Answer the following questions in a sentence each:

1x10=10

1. Chitra is a daughter of _____.
2. Vasant is also known as _____ in the play 'Chitra'.
3. Who is very courageous in the play 'under fire'?
4. Name the two ladies attainer of Queen.
5. How did the salesman wrap their stuff?
6. Why did the man not like the doctor's waiting room?
7. Why does Adrian Prout lives away from the house?
8. Isabel is a character from _____.
9. Mention the names of Pips brothers.
10. Name the two things demanded by the convict from Pip.

II. Explain with reference to the context (any two) of the following

5x2=10

1. I am dressed in man's attire and have left the seclusion of a woman's chamber.
I know no feminine wiles for winning hearts.
2. Did you find out who was the author of that article on "Medicine in Fiction?"
3. Well, what I was just going to say..... here you are, a law – abiding sort of man....
You missed your train?
4. You have more than pleased me; you have behaved – like a Queen.

III.

10x1=10

1. Sketch the character of Mrs. Prout.

OR

2. 'Queens must not think too much about others – only about themselves'. Discuss the statement with the reference to the play 'Under Fire'.

IV.

10x1=10

1. Explain in brief how did the boon has change in to an curse in Chitras life.

OR

2. Sketch the character of Pip with the reference to the play 'Pip & the Convict'.

Important Note: 1. On completing answers, compulsorily draw diagonal lines on the remaining blank pages.
2. Any revealing of identification, appeal to valuator and / or equations written will be treated as malpractice.

- V. Read the following passage carefully and match the words with their meanings given in the chart below 1x10=10

When I set off for work this morning, my car broke down, so I ended up taking the bus. As soon as I got off, I bumped into an old schoolmate, Mark. While we were talking, he brought up something I had already found out from some mutual friends – that he had come into some money and had set up his own business. He told me that there was a lot to sort out, and offered to take me on, but I turned him down straight away.

Sl. No.	Word	Meaning
1	Set off	Making things clear
2	Broke down	Started
3	Ended up	Got / received
4	Got off	Discovered
5	Bumped into	Offered
6	Brought up	Came across / met
7	Found out	Came out of the bus
8	Came into	Decided to
9	Set up	Started
10	Sort out	Stop workers

- VI. a) Arguing that anxieties of Chinese businesses in investing in India are “overblown”, official media on Friday said investors can make ‘fat gains’ by cashing in on the rapid growth in India’s manufacturing an “Unwise Choice”. Give the suitable title for the same. (5 marks)
- b) Prepare 5 slogans / Catchy words for ‘Go Green’. (5 marks)
- VII. Write a resume for the job along with a job application for the post of ‘Programmer’ for Infosys Company. (10 marks)



Reg.No.

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KLE Society's

Raja Lakhamagouda Science Institute (Autonomous), Belagavi.

First Semester B.Sc./BCA Degree Examination Dec - 2016**A10: INDIAN CONSTITUTION**

Duration: 1 ½ Hrs

Max Marks: 70

Instructions to candidates:

1. Instruction: Answer any 70 of the following questions in the OMR sheet provided.

- The term 'constitution' is derived from Latin word 'constitute' which means
 - To form
 - To establish
 - Both a & b
 - None
- Best example of written constitution is
 - England
 - America
 - Russia
 - Switzerland
- The term constitution became famous in -----century
 - 12th
 - 18th
 - 15th
 - 20th
- The idea of constituent assembly was first conceived by
 - Mahatma Gandhi
 - M N Roy
 - Dr. Ambedkar
 - Congress Party
- The first meeting of Constituent Assembly was held on
 - Dec 11, 1946
 - Dec 9, 1946
 - Nov 26, 1949
 - Aug 15, 1947
- The constitution derives its authority from
 - Parliament of India
 - People of India
 - French Constitution
 - Russian Constitution
- The members of the Constituent Assembly were-
 - Nominated by the British Parliament
 - Nominated by the Governor General
 - Elected by the Legislative Assemblies of the various provinces
 - All
- Parliamentary form of government in India is modeled on the basis of
 - British Constitution
 - US Constitution
 - French Constitution
 - Canadian Constitution
- The minimum age of voting in India is
 - 21 years
 - 20 years
 - 16 for women
 - 18 years
- The Constitution recognizes----- as official language-
 - Kannada
 - English
 - English
 - Hindi
- Single citizenship means – a person is a citizen of
 - His own state only
 - the whole country
 - his native place
 - All
- The word 'socialist' was added to the Preamble by
 - 32nd Amendment
 - 42nd Amendment
 - 24th Amendment
 - 48th Amendment
- The constitution of India recognizes
 - Only one religion
 - Three religions
 - No religion
 - All religions
- After Independence who decided to determine the future constitution of India
 - Jawaharlal Nehru
 - Sardar Patel
 - Constituent Assembly
 - None
- Constitution of India was adopted on
 - 26th Nov 1949
 - 25th Nov 1950
 - 15th Aug 1947
 - 26th Jan 1950
- Preamble indicates
 - Source of the constitution
 - Wish of British India
 - Wish of Parliament
 - None
- Alien enjoy-----constitutional rights in India
 - Full
 - No
 - Limited
 - None of the above
- The basic structure theory was laid down by Supreme Court in
 - Golaknath case
 - Indira Gandhi case
 - Keshavanand Bharati case
 - All

19. Which of the following states the date of adoption of the constitution
a) Fundamental Rights b) Fundamental Duties c) Preamble d) None
20. Bi-cameral Legislature means
a) Two houses of legislature b) Two cameras in the house
c) Both a & c d) None
21. Which Article empowers Parliament to amend Constitution
a) 268 b) 368 c) 245 d) 390
22. Power of Parliament to amend the Constitution is
a) Unlimited b) Undrilled c) Subject to basic structure theory d) All
23. The term Republic means
a) The head of the state must be elected President b) Re-election
c) Public Response d) None
24. Who has the power to change the boundaries of the state?
a) State Legislature b) Supreme Court c) President d) Parliament
25. The constitution classifies the fundamental rights under
a) 12 heads b) 3 heads c) 6 heads d) 5 heads
26. Which part of the constitution contains fundamental rights
a) Part-I b) Part-II c) Part-III d) Part-IV
27. Traffic in human beings means
a) Transporting human beings b) Selling or purchasing men and women
c) Traffic in places having dense population d) Illegal sale of human organs
28. To protect security of the state, the state can impose on the right to freedom of speech
a) Absolute restriction b) Total restriction c) Reasonable restriction d) None
29. Art 16 provides equality of opportunity in
a) Private sector b) Public employment c) Competitive exams d) All
30. Ex-post facto law means
a) An outdated law b) Bad law
c) Passing criminal law with retrospective d) All
31. A writ may be filed against
a) Prime Minister b) Governor c) Government d) President
32. This Article is applicable to both, citizens and non-citizens
a) Art.15 b) Art.14 c) Art.19 d) Art 16
33. A public authority is directed to discharge public duty by issuing a writ of
a) Habeas corpus b) Certiorari c) Mandamus d) Prohibition
34. Children below -----age cannot be employed
a) Seven b) Three c) Fourteen d) Six
35. Constitution empowers the government to make special law for
a) Women & Children b) Workers in the mines
c) Farmers d) Unemployed youths
36. Which of the following are the fundamental rights?
a) Right to freedom b) Right to equality
c) Right to Constitutional remedies d) All
37. Which of the following is not a feature of our Fundamental Rights
a) Amend ability b) Absolute c) Justiciable d) Suspendable
38. Self- Incrimination means compelling a person
a) to give evidence b) to file complaint c) to be a witness against himself d) None
39. Who described DPSP as "future promises of India".
a) Dr. B.R. Ambedkar b) Pt Nehru c) Mahatma Gandhi d) All the above
40. DPSP are mentioned in -----articles of the constitution
a) Art.12-35 b) Art. 36-51 c) Art. 52-62 d) None of the above

41. DPSP are the directions to
a) People of India b) President c) Prime Minister d) State
42. The idea of DPSP has been borrowed from Constitution of
a) USA b) USSR c) Ireland d) All
43. DPSP Proclaim
a) Civil & Political Rights b) Economic, Social and Cultural Rights
c) Criminal Rights d) Constitutional Rights
44. DPSP are mentioned in-----Part of the constitution
a) Part III b) Part IV c) Part V d) Part II
45. Which committee was appointed to deal with fundamental duties?
a) Mehta Committee b) Jt Verma Committee c) Ambedkar Committee d) None
46. DPSP are
a) Democratic b) Enforceable c) Non-justiciable d) None
47. How many fundamental duties are there?
a) 11 b) 12 c) 10 d) 9
48. Fundamental duties require one to
a) Work sincerely b) Avoid corruption c) Abide by Constitution d) All
49. Fundamental duties
a) Can be enforced b) Cannot be enforced
c) Enforced by Supreme Court d) None
50. Which amendment introduced eleventh duty?
a) 44th Amendment b) 42nd Amendment c) 86th Amendment d) 89th Amendment
51. Fundamental duties were added to the constitution in the year
a) 1950 b) 1999 c) 1978 d) 1977
52. PIL means
a) Public International Law b) Public Interest League
c) Public Interest Litigation d) Private Interest Litigation
53. President of India is elected by
a) Members of Parliament b) Loksabha
c) Elected members of both houses of Parliament and members of state legislative assembly.
d) All
54. How many types of emergencies can be declared by the President?
a) Four b) Three c) Five d) Six
55. Who is the first citizen of India?
a) Prime Minister b) Governor c) President d) Vice-President
56. Ordinance is promulgated by-
a) Vice-President b) President c) Prime Minister d) All
57. Who is the ex-officio chairman of Rajya Sabha?
a) President b) Vice- President c) Governor d) Prime-Minister
58. Who is the Constitutional head of the State?
a) Chief Minister b) Vice-President c) Governor d) None
59. A person may be re-elected to the office of the President
a) only once b) twice c) thrice d) any number of times
60. The term of the President of India is-
a) four years b) three years c) five years d) six years
61. Who is known as President in action?
a) Home Minister b) Vice-President c) Prime Minister d) Speaker
62. Our Parliament consists of-----houses
a) Single b) Multi c) Two d) All the above

63. Who is the supreme commander of the Indian defense forces?
 a) Defense Minister b) President c) Home Minister d) Chief Commander
64. During emergency all the fundamental rights are suspended except articles
 a) 21-22 b) 20-21 c) 22-23 d) None
65. The Governor is appointed for
 a) Life time b) 6 years c) 5 years d) 4 years
66. House of people is also known as
 a) Rajya Sabha b) Vidhan Sabha c) Loksabha d) Vdhan Parishad
67. How many members the President of India nominates to the Rajya Sabha
 a) 10 b) 11 c) 13 d) 12
68. Which house is not subject for dissolution?
 a) Lok Sabha b) Council of State c) House of People d) State Legislature
69. Any bill, other than money bill, can be introduced
 a) In any of the house b) Only in Lok Sabha c) Only in Rajya Sabha d) None
70. The Supreme Court of India was established on-----
 a) 26th Nov 1949 b) 15th Aug 1947 c) 28th Jan 1950 d) None
71. Supreme Court Judges retire upon attaining the age of
 a) 65 years b) 66 years c) 75 years d) 68 years
72. The appellate jurisdiction of the SC extends to-----matters
 a) Civil b) Criminal c) Constitutional d) All the above
73. In the Concurrent list, how many subjects have been included?
 a) 42 b) 43 c) 45 d) 47
74. Three-tier system was first advocated by the Committee headed by
 a) Balwant Rai Mehta b) Rajesh Mehta c) Jawaharlal Nehru d) Mahatma Gandhi
75. Rajya Sabha is composed of not more than
 a) 350 members b) 550 members c) 250 members d) 220 members
76. After how many years, $\frac{1}{3}^{\text{rd}}$ of the members of the Rajya Sabha retire
 a) 6 years b) 3 years c) 5 years d) 2 years
77. What is the feature of the Indian Constitution?
 a) Rigid Constitution b) Flexible Constitution c) a & b d) None
78. The minimum age prescribed for the membership of the Rajya Sabha is
 a) 25 years b) 35 years c) 30 years d) 40 years
79. The only ground on which a judge of the Supreme Court/ High Court can be removed is
 a) Illness b) Participation in non legal matters
 c) Proved misbehavior/incapacity d) All
80. A person who is a distinguished -----in the opinion of the President, may be
 Appointed as a judge of the Supreme Court
 a) Educationalist b) Jurist c) Politician d) Philanthropist



**Raja Lakhamagouda Science Institute (Autonomous),
Belagavi.**

First Semester BCA Degree Examination Dec - 2016

A52: MATHEMATICS - I

Duration: 3 Hrs

Max Marks: 70

Instructions to candidates:

- 1) Answer all questions.

I Answer Any FIVE of the following:

2 x 5 = 10

1. Define scalar matrix and give an example.
2. Define Unit matrix.
3. Define group.
4. $\forall a, b \in G$ prove that $b*a = c*a \Rightarrow b = c$.
5. Find the distance of the points (3,4) from origin.
6. Find the equation of the circle with centre is (2, 3) and radius is 5 units.
7. Find the length of the major axis and minor axis of the ellipse $\frac{x^2}{36} + \frac{y^2}{25} = 1$.

II Answer Any SIX of the following

5 x 6 = 30

8. If $A = \begin{bmatrix} 3 & 1 \\ -1 & 2 \end{bmatrix}$ Prove that $A^2 - 5A + 7I = 0$.
9. Prove that $\begin{vmatrix} x & p & q \\ p & x & q \\ p & q & x \end{vmatrix} = (x+p+q)(x-p)(x-q)$.
10. Define subgroup?. Let $G = \{1,2,3,4,5,6\}$ is a group * is multiplication modulo 7 prove that $H = \{1,2,4\}$ is a subgroup of G.
11. a) Show that the vectors $\vec{a} = 4\vec{i} - 2\vec{j} + 2\vec{k}$ and $\vec{b} = 2\vec{i} + 3\vec{j} - \vec{k}$ are perpendicular.
b) Find the cross product of vectors $\vec{a} = 3\vec{i} - 2\vec{j} + \vec{k}$ and $\vec{b} = 2\vec{i} + \vec{j} - 4\vec{k}$ also find its magnitude.
12. Find the sine of the angle between the vectors $\vec{a} = \vec{j} - 3\vec{k}$ and $\vec{b} = \vec{i} - \vec{j} + 2\vec{k}$.
13. Show that the points (3,7), (-1, 1) and (4,2) are vertices of a isoscalar triangle.
14. Find the co-ordinates of a points which divides externally the line joining points (7, -9), (3,6) in the ratio 3:4.
15. Find the equation of the parabola focus (4,2) vertex is (1,2).

III Answer Any THREE of the following

10 x 3 = 30

- 16. (a)** Solve by using Cramer's Rule.

$$\begin{aligned}x + y + z &= 7 \\ 2x + 3y + 2z &= 17 \\ 4x + 9y + z &= 37\end{aligned}$$

- (b)** State and verify Cayley - Hamilton theorem for the matrix $A = \begin{bmatrix} 1 & 2 \\ 3 & 4 \end{bmatrix}$.

- 17. (a)** Prove that in any group identity element is unique .

- (b)** Find the cosine of the angle between the vectors $2\mathbf{i} - 2\mathbf{j} + \mathbf{k}$ and $2\mathbf{i} - \mathbf{j} - 2\mathbf{k}$.

- 18. (a)** Find the area of the triangle the co-ordinates of whose points are

$(5,1)$, $(1, -1)$ and $(11,0)$.

- (b)** Find the equation of circle passing through the points $(1, -3)$, $(3, -1)$ and $(-5, 7)$.

- 19. (a)** Find the radical centre of the circle $x^2 + y^2 - x + y + 2 = 0$,

$$x^2 + y^2 + 2x - 3y - 15 = 0 \text{ and } x^2 + y^2 + 5x + 2y - 14 = 0.$$

- (b)** Prove that the circles $x^2 + y^2 - 2x + 3y + 5 = 0$ and $x^2 + y^2 - 4x - 2y - 4 = 0$ intersect orthogonally.

- 20. (a)** Find the equation of the parabola whose vertex is $(-2, 0)$ directrix is $x = 1$

- (b)** Find the ellipse whose foci is $(3, 0)$ and eccentricity $\frac{3}{5}$.



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Raja Lakhamagouda Science Institute (Autonomous)
Belagavi.

First Semester BCA Degree Examination Dec- 2016
A54: ACCOUNTING & FINANCIAL MANAGEMENT -I

Duration: 3 Hrs

Max Marks: 70

Instructions to candidates:

- 1) Attempt all Questions.

I. Answer any FIVE of the following:**2X5=10**

1. Give the meaning of Accounting?
2. Who is Debtor?
3. Write any two Accounting Conventions.
4. What do you mean by Depreciation?
5. What is three column cash book?
6. What is computerized accounting?
7. What do you mean by capital receipts?

II. Answer any SIX of the following :**5X6=30**

8. Briefly explain the Golden Rules of Accounting.
9. Differentiate between SLM and WDV
10. Classify the following into Personal, Real and Nominal Accounts

a. Cash A/C	b. Rent A/C	c. Salary A/C	d. Commission A/C
e. Furniture A/C	f. Deepika's A/C	g. Sales Returns A/C	h. Sales A/C
i. Capital A/C	j. Drawings A/C		
11. Compare between Manual Accounting Process and Computerized Accounting Process.
12. Prepare Trial Balance with Ten imaginary items.
13. Prepare ledger account of Mr. Mohit in the books of Mrs. Rohini Traders Private Limited from the following transactions.

2016	Particulars	Amount
Feb. 1	Bought goods from Mr. Mohit worth Rs.	50,000
Feb. 5	Paid him cash on account Rs.	35,000
Feb. 7	Returned goods to him worth Rs.	5,000
Feb. 10	Sold goods to him of Rs.	25,000
Feb. 15	Received cash from him for goods sold Rs.	22,000
Feb. 20	Returned goods to him worth Rs.	1,000

14. Prepare Trading Account from the following information in the books of Shantadurga Traders.

Particulars	Amount	Particulars	Amount
Opening Stock	1,00,000	Wages	30,000
Purchases	8,10,000	Power and Fuel	14,000
Purchase Returns	10,000	Factory Rent	20,000
Sales	12,20,000	Sales Returns	20,000
Closing Stock	1,60,000	Factory Insurance	1,000
Carriage Inwards	16,000	Carriage outwards	10,000

15. Enter the following in a Simple Cash Book and find the closing balance.

2016	Particulars	Amount
Mar. 1	Opening balance of cash Rs.	20,000
Mar. 2	Cash sales made of Rs.	1,00,000
Mar. 7	Purchased goods for cash Rs.	70,000
Mar. 20	Paid advertisement expenses Rs.	5,000
Mar. 21	Withdrawn cash for personal use Rs.	20,000
Mar. 25	Received rent Rs.	10,000
Mar. 31	Cash paid to Gopal Rs.	10,000

Important Note: 1. On completing answers, compulsorily draw diagonal lines on the remaining blank pages.
 2. Any revealing of identification, appeal to valuator and / or equations written will be treated as malpractice.

III. Answer any THREE of the following :**10X3=30**

16. Explain any five advantages and disadvantages of Computerized Accounting Process.
17. Explain the methods of calculating depreciation with their merits and demerits.
18. Briefly explain all accounting concepts.
19. Journalize the following transaction in the books of Mr. Abhay for January 2016:

Jan 1	Commenced business with Cash 75,000.
Jan 2	Purchased goods for cash of 22,000.
Jan 4	Sold goods for cash 28,000.
Jan 5	Deposited cash into bank 15,000.
Jan 7	Brought Furniture from Om Textiles 15,000.
Jan 9	Purchased goods from Nandan for 20,000 on credit.
Jan 15	Sold goods to Megha for 18,000 on credit.
Jan 18	Megha returned goods 1,500.
Jan 20	Paid to Nandan by cheque 10,000.
Jan 28	Received cheque from Megha 12,000.

20. From the following Trial Balance of Mr. Manav, prepare his Trading and Profit and Loss account for the year ending 31-12-2015 and the Balance Sheet as on that date.

Particulars	Dr.	Cr.
Capital Account		1,00,000
Drawings Account	20,000	
Stock on 1-1-2015	50,000	
Bills Receivables	10,000	
Bills Payables		12,000
Sales		3,25,000
Sales Returns	5,000	
Purchases	2,07,000	
Purchases Returns		7,000
Sundry Debtors	32,400	
Sundry Creditors		24,000
Salary	22,000	
Wages	19,200	
Machinery	60,000	
Furniture	10,000	
Rent And Taxes	7,000	
Insurance	2,600	
Printing and Stationary	3,000	
Cash in hand	400	
Cash at Bank	19,400	
Total	4,68,000	4,68,000

Adjustments:

- a) Closing Stock on 31-12-2013 Rs. 36,000
b) Depreciate machinery by 10% and Furniture by Rs. 1,000
c) Outstanding wages Rs. 800 and outstanding rent Rs. 2,000



Reg. No.

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**Raja Lakhamagouda Science Institute (Autonomous),
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**First Semester BCA Degree Examination Dec - 2016
A56: COMPUTER CONCEPT & C-PROGRAMMING**

Duration: 3 Hrs

Max Marks: 70

Instructions to candidates:

1. Attempt all Questions.

I. Answer any FIVE of the following:**2X5=10**

- 1) What is computer?
- 2) Compose 'DATA' and 'INFORMATION'
- 3) Explain <stdio.h> and <Conio.h>.
- 4) List out the C-Tokens.
- 5) What is Constant and Variables?
- 6) What are Logical Operators?
- 7) What are the formatted I/O functions?

II. Answer any SIX of the following :**5X6=30**

- 8) Difference between primary and secondary memory.
- 9) What is translator? Explain the various translators.
- 10) Difference between HLL and MLL.
- 11) Define flowchart. Explain the various symbols used in flowchart.
- 12) What are the importances of c-program?
- 13) Write a C-program to find GCD and LCM of two integer numbers.
- 14) Explain decision making with looping statements.
- 15) Explain symbolic constants? With an example.

III. Answer any THREE of the following:**10X3=30**

- 16) Explain basic structure of c-program with an example.
- 17) Explain generations of computers.
- 18) Explain block diagram of computer system.
- 19) WAP to find the roots of the given quadratic equation using switch case.
- 20) Explain category of functions with an example.



Reg. No.

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**Raja Lakhamagouda Science Institute (Autonomous),
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**First Semester BCA Degree Examination Dec – 2016
A59: PROBLEM SOLVING TECHNIQUES**

Duration: 3 Hrs

Max Marks: 70

Instructions to candidates:

1. Attempt all Questions.

I. Answer any FIVE of the following:**2X5=10**

1. Define top down approach.
2. Write the formula to generate the consecutive terms of the sine series.
3. Write the formula for reversing the number.
4. Write the averaging formula used for calculating square root of a number.
5. Write the logic of generating prime number up to n
6. Why are arrays used in computing?
7. Write an algorithm to swap 2 numbers.

II. Answer any SIX of the following :**5X6=30**

8. Design an algorithm to find the sum of the following series. $S = 1+3+5+\dots+n$
9. Explain the phases in problem solving.
10. Design an algorithm to reverse the elements of an array.
11. Design an algorithm to find the smallest divisor of a integers.
12. Design an algorithm to find the largest element in an array.
13. Design an algorithm to find factorial of a number.
14. Explain the concepts of loops.
15. Explain the algorithm development of square root of a number.

III. Answer any THREE of the following:**10X3=30**

16. Explain and design an algorithm to generate prime numbers
17. Explain and design an algorithm to search a number in 'n' elements using linear search.
18. Explain and design an algorithm to order a set of 'n' numbers in ascending order using selection sort.
19. a) Design an algorithm to count the number of students who has passed an examination.
A pass is considered as marks ≥ 40 .
b) Design an algorithm to generate sine series
20. a) Explain and design an algorithm to find GCD of a number
b) Design an algorithm to generate Fibonacci sequence.