

# Bachelors Of Computer Application (BCA) Examination.

## FUNDAMENTAL OF COMPUTER AND INFORMATION TECHNOLOGY

[Duration: 3 Hours]

[Max Marks:100]

[Min Pass Marks: 40]

निर्देश :

- 1 प्रश्नपत्र पाँच इकाईयों में विभाजित है प्रत्येक इकाई में आन्तरिक विकल्प दिया गया है !
- 2 प्रत्येक इकाई से एक प्रश्न का उत्तर दीजिए ! इस प्रकार कुल पाँच प्रश्नों के उत्तर दीजिए !
- 3 सभी प्रश्नों के लिए समान अंक नियत है !
- 4 जहाँ आवश्यकता हो वहाँ उपयुक्त डाटा माना जा सकता है !
- 5 अनुवाद में विसंगति होने पर अंग्रेजी स्वरूप को सही माना जाए !
- 6 प्रश्नपत्र के विरुद्ध आपत्ति यदि कोई हो तो, प्रश्नपत्र हो जाने पश्चात विभागाध्यक्ष / प्रभारी अध्ययन संस्था के माध्यम से

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### इकाई I Unit I

1. (अ) विभिन्न प्रकार के कम्प्यूटर का वर्णन कीजिए।  
Describe various types of Computers.  
(ब) रेम और रोम अन्तर कीजिए ।  
Difference between RAM and ROM.
2. (अ) विभिन्न प्रकार के पर्सनल कम्प्यूटरों के गुणों को समझाइये ।  
Explain Characteristics of various types of personal Computers.  
(ब) कम्प्यूटर सिस्टम का ब्लॉक आरेख बनाइएँ एवं ALU तथा control unit की कार्य प्रणाली समझाइयें।  
Draw block diagram of computer system and explain the function. of ALU and control unit.

### इकाई II Unit II

3. (अ) बार कोड रीडर की कार्य प्रणाली को समझाइये।  
Explain the working of bar code reader  
(ब) प्लॉटर क्या है? इसकी कार्य प्रणाली समझाइये।  
What is plotter ? Explain its function.
4. (अ) निम्न की विवेचना कीजिए : Discuss the following :

- (i) Joystick                      (ii) Light pen  
(ब) Display wheel   प्रिंटर की कार्य विधि समझाइएँ ।  
Explain the working of Daily wheel printer.

### इकाई III Unit III

3. (अ) विभिन्न प्रोग्रामिंग भाषाओं को उनके गुणों एवं अवगुणों सहित समझाइए ।  
Discus various programming language with their merits and demerits.  
(ब) वायरस के प्रकार , उनका संसूचन एवं वचाव की विवेचना कीजिए ।  
Discus type of Viruses, their detection and prevention.
4. (अ) डाटाबेस मैनेजमेन्ट सॉफ्टवेयर की विशेषताएँ एवं अनुप्रयोगों का वर्णन कीजिए ।  
Describe characteristics and applications of data base management software.  
(ब) संक्षिप्त टिप्पणियाँ लिखिए : Write short notes on :  
(i) Operating System                      (ii) Viruses on Network

### इकाई IV Unit IV

5. (अ) मॉड्यूलेशन क्या है ? विभिन्न प्रकार की मॉड्यूलेशन तकनीकों की विवेचना कीजिए ।  
What is modulation ? Discus various types of modulation techniques.  
(ब) Modem की कार्य विधि एवं अभिलाक्षणिकताएँ समझाइए ।  
Explain the working and characteristics of modem.
8. (अ) विभिन्न कम्यूनिकेशन चैनलों का वर्णन कीजिए ।  
Describe various Communication Channels.  
(ब) LAN क्या है ? Ring एवं Bus टोपोलोजी की विवेचना कीजिए ।  
What is LAN ? Discus Ring and Bus Topologies.

### इकाई V Unit V

9. (अ) DOS की बूटिंग विधि को समझाइये ।  
Explain booting process of Dos.]  
(ब) डॉस के निम्न कमाण्डों को समझाइये : Explain following command of DOS.  
(i) CHKDSK                      (ii) DOSKEY                      (iii) APPEND  
(iv) MODE                      (v) LABEL
10. (अ) DOS का फाइल एवं डायरेक्टरी स्ट्रक्चर समझाइए ।  
Explain file and directory structure of Dos.  
(ब) निम्न डॉस कमाण्डों का उपयोग लिखिए : Write the use of following Dos commands.  
(i) DIR                      (ii) CD                      (iii) REN  
(iv) DATE                      (v) MD

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## PROGRAMING IN C

[Duration: 3 Hours]

[Max Marks:100]

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### इकाई- I Unit-I

1. (अ) निम्नलिखित C के विशेष ऑपरेटर के उपयोग की उदाहरण सहित व्याख्या कीजिये :

Describe the use of following special operators in C : (Give example)

- |                       |                       |                        |
|-----------------------|-----------------------|------------------------|
| (i) Pointer operator  | (ii) Address operator | (iii) Size of operator |
| (iv) Ternary operator | (v) Comma operator    | (10)                   |

(ब) C में पाँच अर्थमेटिक ऑपरेटरों को क्रमबद्ध कीजिये । इन ऑपरेटरों में कोन सा association नियम शामिल है ।

List out the five arithmetic operators in c. Which associativity rules involved in these operator. (10)

2. (अ) C operator में प्राथिकता नियम की क्या महत्वता है ?

What is the importance of using precedence rules in the c operator (10)

(ब) C में type conversion के उपयोग की व्याख्या कीजिये ।

Describe the use of type conversion in c. (10)

### इकाई- II Unit-II

3. निम्नलिखित को समझाइये : Explain the following :

- (a) get char ()      (b) put char ()      (c) get ch ()  
 (d) ceil ()      (e) floor ()      (f) to ascii      (20)

1. (अ) If- else और switch case स्टेटमेन्ट के बीच अन्तर बताइये ।  
 Differentiate between If- else and Switch-case statement with example.(10)

(ब) while loop एवं do while किस प्रकार भिन्न है ? समझाइये ।  
 How while loop is different from do while loop ? Explain.      (10)

### इकाई- III Unit-III

2. (अ) अरे का उपयोग कर c प्रोग्राम लिखिये जो कि n नंबर में से बड़ा नंबर निकाले ।  
 Write a program in c to find out biggest of given n number using array.(10)

(ब) 5 स्ट्रिंग फंक्शन को समझाइये ।  
 Explain the five string function.      (10)

3. (अ) c में एक प्रोग्राम लिखिये जो कि magic square A उत्पन्न जिसमें रो वार्डज एवं कॉलम वार्डज तत्वों का जोड़ समान हो ।

Write a program in C to generate a magic square A, where the sum of the elements in the row wise and column wise same.      (20)

### इकाई- IV Unit-IV

4. निम्नलिखित को समझाइये : Explain the following :

- (a) Auto      (b) Extern  
 (c) Static      (d) Register

8. (अ) रिकर्सन फंक्शन सामान्य फंक्शन से किस प्रकार भिन्न है ? समझाइये ।  
 How is a recursive function different from an ordinary function ? Describe with example.      (10)

(ब) C का प्रोग्राम लिखिये जो कि निम्नलिखित पिरामिड को बनाये ।

Write a C program to generate the following pyramid of numbers using function.

```

      0
     1 0 1
    2 1 0 1 2
   3 2 1 0 1 2 3
  4 3 2 1 0 1 2 3 4
 5 4 3 2 1 0 1 2 3 4 5
 6 5 4 3 2 1 0 1 2 3 4 5 6
  
```

### इकाई- V Unit-V

5. (अ) स्ट्रक्चर एवं यूनियन में अन्तर उदाहरण के साथ बताइये ।  
 Differentiate between Structure and union with example.      (12)

(ब) Nested structure से आप क्या समझते हैं ? समझाइये ।  
 What do you understand by nested structure ? Explain.      (8)

6. निम्नलिखित पर टिप्पणी लिखिये : write notes on the following :

- (a) Array of structure  
 (b) Structure Assignment

Return the Value in function as Structure.      (20)

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### UNIT- I (खण्ड- 1)

- Q.1 (a) What are variables ? What are the rules for naming variables. (5)  
variables क्या है ? variables को किस प्रकार से नाम दिया जाता है उसके नियम बताएँ ।
- (b) What are various operators supported by c language. Explain with help of examples. (10)  
C भाषा कौन- 2 से ऑपरेटर्स को Support करती है : उदाहरण के साथ समझाइएँ ।
- (a) Write a note on type conversion. (5)  
type conversion के बारे में लिखिये ।
- Q.2 (a) Give various features of C language. (5)  
C भाषा के विभिन्न features को समझाइए ।
- (b) What are data types. Differentiate between fundamental derived and enumerated data types. (10)  
डाटा टाईप से आप क्या समझते हैं । Fundamental derived एवं enumerated डाटा टाईप के बीच अन्तर स्पष्ट करें ।
- (c) Explain operator Precedence with help of example. (5)  
ऑपरेटर precedence को उदाहरण के साथ समझाइएँ ।

## UNIT- 2 (खण्ड- 2)

Q.3 (a) Explain the following functions. with help of example. (10)  
निम्न फंक्शनों को उदाहरण के साथ समझाइए।

(i) printf () (ii) getch () (iii) putchar () (iv) getchar () (v) scanf ()

(b) Write a program to find sum of digits of an input integer number. (10)  
इनपुट किये गये इन्टीजर नम्बर के अंकों का जोड़ निकालने के लिये प्रोग्राम लिखिये।

Q.4 (a) Explain at least 5 mathematical and 5 character function with example.

5 mathematical एवं character function को उदाहरण के साथ समझाइये।

(b) Write a program to find sum of natural numbers from 10 to 50. (10)  
10 से 50 के बीच तक के नम्बरों का जोड़ निकालने के लिये प्रोग्राम बनाइये।

## UNIT- 3 (खण्ड-3)

Q.5 (a) Differentiate between single dimensional and multidimensional array with example. (10)

single dimensional and multidimensional array के बीच अन्तर स्पष्ट करें।

(b) Write a program to arrange set of 10 numbers in ascending order. (10)  
10 नम्बरों के समूह को बढ़ते क्रम में जमाने के लिये प्रोग्राम लिखिये।

Q.6 (a) How arrays are declared and initialized. Explain it. (5)  
ऐसे को किस प्रकार से declare एवं initialize किया जाता है। समझाइये

(b) List various string functions supported by "C" language. (10)  
C भाषा कौन से string functions को support करती है बताएँ।

(c) Write a program to find greatest among inputted n numbers. (5)  
input किये गये n नम्बरों में से सबसे बड़ा नम्बर निकालने के लिये प्रोग्राम लिखिये।

## Unit -4 (खण्ड - 4)

Q.7 (a) Differentiate between user defined and library function. (5)  
User defined एवं library function के बीच अन्तर स्पष्ट करें।

(b) Write program to find factorial of a given number using recursion. (10)  
recursion के उपयोग करके किसी नम्बर का फेक्टोरियल निकालने के लिये प्रोग्राम लिखियें।

(c) Explain local and global variables. (5)  
Local एवं global variables के बीच अन्तर स्पष्ट करें।

Q.8 (a) Explain various storage class specifier. (10)  
विभिन्न storage class specifier को समझाइए।

(b) Differentiate between call by value and call by reference. (10)  
Call by value एवं call by reference के बीच अन्तर स्पष्ट करें।

## Unit – 5 (खण्ड- 5)

Q.9 (a) What is the main reason for using structure. How structure is different from array. (10)

structure के उपयोग करने का क्या मुख्य कारण है। structure किस प्रकार ऐसे से भिन्न है ।  
(a) What is meant by nesting of structure. explain with help of example. (10)  
structure के nesting से आप क्या समझते हैं । उदाहरण के साथ समझाएँ ।

Q.10 (a) Differentiate between structure and union . (5)

structure एवं union के बीच अन्तर स्पष्ट करें ।

(b) Create a structure 'student' that have a following information. (15)

Class. student name ,result (pass or fail)

इस structure का उपयोग करके 50 student की जानकारी पढने में लिखिये एवं result wise लिस्ट को प्रिन्ट करने के लिये प्रोग्राम लिखिये ।

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# Bachelor Of Computer Application (BCA) Examination.

## PC PACKAGES (WINDOWS-95,MD-WORD,MS-EXCEL)

[Duration: 3 Hours]

[Max Marks:100,

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### इकाई- I Unit-I

1. (अ) Window Structure को स्वच्छ चित्र द्वारा समझाइये ।  
Explain window structure with neat sketch. (10)  
(ब) कम्यूनिकेशन के लिये window में कौन सी सुविधाएँ उपलब्ध हैं ?  
What facilities are available for communication in windows.? (10)
2. (अ) विन्डो में निम्न को कैसे perform करोगे :  
In windows environment how these functions be performed.  
(a) Installing a joystick (b) Sharing information between Program.  
(c) Disk defragmentation (d) Run a DVD  
(e) Copy folder from one device to other. (20)

### इकाई- II Unit-II

3. (अ) MS-WORD में कैसे कर सकते हैं : In MS-WORD how one can do following:  
(i) OPEN document (ii) CREATE document (iii) SAVE document  
सभी के लिये shortcut key भी बताइये । also list key for each of these. (10)  
(ब) छुट्टी के आवेदन हेतु word में एक document बनाइये तथा उसकी paragraph setting लिखिये ।  
Write an application for leave. in a word document, what paragraph setting you will do ?
4. MS –WORD में आप कैसे करोगें : How will do you in MS-WORD :  
(a) Change Font (b) Print a document  
(c) Using Multiple Column (d) Using Multiple document window  
(e) Inserting figure in word document (f) Using bullets and numberings  
3,3,3,3,4,4.

### इकाई- III Unit-III



1. MS-WORD में निम्न से आप क्या समझते हैं। What do you mean by the following in MS-WORD
- (a) Template and wizard (b) Mailing Labels  
(c) Auto Correct and Wizard (d) Thesaurus Usage. (20)
2. (अ) एक word document के HTML document में कैसे बदलते हैं?  
How a word document can be converted into HTML document ? (10)
- (ब) MS-Word में निम्न कैसे करेंगे : In MS- Word how will perform :
- (i) Create a table of 4\*6 (ii) Increase one row  
(iii) Increase a column (iv) (v) Delete 3<sup>rd</sup> row  
(v) select content of column 3 and copy to column 2  
(vi) Combine to columns at row 3, 4  
(vii) Delete column 2  
(viii) Increase row size  
(ix) Increase column width  
(x) Split cell at column 4, row 3 into 2. (10)

### इकाई- IV Unit-IV

3. (अ) Excel में कैसे : In Excel how :
- (i) Worksheet can be created  
(ii) Text data can be entered  
(iii) Alpha numeric values can be entered  
(iv) Data can be saved and sheet will be quit (12)
- (ब) Ranges कैसे create , Edit , तथा select होती है ?  
How Ranges can be created , edited and selected ? (8)
4. (अ) Excel में कैसे दो worksheet को आपस में जोड़ा जा सकता है ?  
How two worksheet can be link in Excel ? (10)
- (ब) Absolute तथा Relative Addressing में अन्तर बताइये।  
Differentiate Absolute and Relative Addressing. (10)

### इकाई- V Unit-V

5. (अ) MS-Excel में filter क्या है ? किसी worksheet में filter के लाभों का वर्णन कीजिये ।  
What is filter in MS-Excel ? explain the advantage of filter in a given worksheet. (12)
- (ब) MS-Excel में goal seek option को बताइये ।  
Explain goal seek option in MS-Excel (8)
6. (अ) MS-Excel में function तथा reference क्या है ? function की निम्न category को उदाहरण से समझाइये :  
In MS-Excel what are functions and references ? Explain following category of function with example :
- (i) Date & time (ii) Stistical function (iii) Logical function (12)
- (ब) एक worksheet में निम्न कैसे करेंगे : In a worksheet how do you do :
- (i) Create macro (ii) Setting Date format (iii) Changing character style.

# Bachelors Of Computer Application (BCA) Examination.

## COMMUNICATIVE ENGLISH

[Duration: 3 Hours]

[Max Marks:100]

[Min Pass Marks: 40]

### Instructions:

1. The Question Paper Is Divided in five Units .Each units an internal choice.
2. Attempt one question from each units. Thus attempt five question in all.
3. All question carry equal marks.
4. Protest against question paper. if any . should be lodged after paper through Head of Department / Study Institute. No boycott of paper should be made under any circumstances by the examinations.

### Unit –I

1. Rewrite The sentences given bellow using the correct form of verb given in the bracket.
  - (a) Children love to play cricket. (Present Simple)
  - (b) If I drop this it (break).(Future Simple)
  - (c) She (study) medicine for the last four years .(Present Perfect Continuous)
  - (d) I (Meet) him on Monday .(Past Simple)
  - (e) Look at the sky it (rain) .(Be going to form)
  - (f) He had a bad fall while he (repair) his house . (Past Continuous)
  - (g) She (take up) the new job already . (Present Perfect)
  - (h) Neha (do) her homework at present .(Present Continuous)
  - (i) By the time the doctor (arrive) the patient (die) .(Past Perfect)
  - (j) I am sure you (like) your new job. (Future Simple)
2. (a) Insert a preposition where necessary.
  - (i) I go to college..... bus.
  - (ii) Rhea told.....them to wait.....her.....the bridge
  - (iii) I am going.....home.....Saturday
  - (iv) He told lies.....the police.
  - (v) We must try to get.....home.....time.....dinner.(b). Combine the sentences using a ground.
  - (i) I insisted . I must see the certificate.
  - (ii) He stopped . He used to smoke.
  - (iii) You teach .do enjoy it.
  - (iv) He. regretted. He had written a rude letter.
  - (v) Forgive me. I had to ring up so early.(c) Pick out and identify the clauses as noun clauses. Adverb clauses or Relative clauses. From the given sentences.
  - (i). What he said was true .
  - (ii) Because I like you , I shall help you.
  - (iii) He met a girl with blue eyes.
  - (iv) Life is what we make it.
  - (v) We eat so that may live.

## Unit II

3. (a). Change the Voice :

- (i) People blame the government for everything.
- (ii) Manners reveal character.
- (iii) English is spoken all over the world.
- (iv) Someone is following us .
- (v) People will soon forget it.

(b) Change the following into Indirect Narration.

- (i) She said, "How smart you are "
- (ii) "Don't go out too far in the jungle" ,he said.
- (iii) "Hell with this terrible noise " , said disgusted visitor.
- (iv) The visitor said . " I want to speak to you "
- (v) The policeman said to us . " where are you going ?".

4. (a) Join the following pair of sentences using conjunctions.

- (i) Ram may be in the house  
Ram may be in the garden
- (ii) He visited Agra  
He visited Delhi .
- (iii) He tried to get up  
He could not.
- (iv) It is not useful  
It is not ornamental.
- (vi) Walk quickly  
You will not overtake him.

(b) Fill in the blanks with a suitable modal for the meaning given in the brackets .  
(can, could, may, might ,shall, will, should, must, and dare)

- (i) How.....you insult him ? (presence of courage)
- (ii) I.....speak French when I was twelve. (ability in the past)
- (iii) .....he be so foolish as to behave like this ? (possibility)
- (iv) I.....(willingness) certainly do it, if I.....(desirability)
- (v) .....you both be happy I(blessing)
- (vi) He.....to say it to him (absence of courage)
- (vii) There is no other offer I.....accept this job.(compulsion)
- (viii) .....I come out now ? (permission)
- (ix) You.....go to the films so often.

## Unit III

5. (a) Write a letter to your friend in New York describing the cultural heritage of your country.

OR

Write an application to the Registrar of your University asking him for an early declaration of result.

(b) Write a paragraph , in about 100 words on any one of the following topics.

- (i) saving our environment.
- (ii) Influence of Indian Culture on South- East Asia.

1. (a) Read the following passage and answer the question that follow.

There were two schools of thought among the Britishers regarding the type of education to be given to Indian . The first schools was represented by Lord Macaulay who stood for total imposition of Western culture on India. He wanted to create class of Indians who would be “Indian in blood and color but English in tastes , in opinions , in morals and in intellect “. This School wanted English as the medium of instruction . The other school also stood for the spread of western knowledge in India but it staunchly supported the encouragement of Sanskrit and Arabic literature. This school wanted classical or modern Indian language as medium of instructions.

This controversy was resolved in 1854 in favour of Lord Macaulay and the present system of education was introduced in India with three aims in view – (1) spreading Western culture ,(2) training public servants to run the administrations, and (3) training Indian people to serve the British Raj. English was adopted as the medium of instruction at college level with the vague assurance of encouraging the modern Indian language.

- (i) who represented the first school of thought regarding education ?
- (ii) Which class of Indians he wanted to create ?
- (iii) Which literature was supported by the other school ?
- (iv) With what aims was the present system of education introduced in India ?
- (v) Which language was adopted as the medium of instructions ?

(b) write a report on any one of the following topics :

- (i) Misuse of Information Technology.
- (ii) Tsunami Disaster.
- (iii) pollution and its control.

#### Unit IV

2. (a) Match the words given in last A with their meaning in list B :

##### List A

- (i) Sect
- (ii) Chieftain
- (iii) Indigenous
- (iv) Suffrage
- (v) Innovation
- (vi) Degenerate
- (vii) Vibrant
- (viii) Jade
- (ix) Maritime
- (x) Hectic

##### List B

- (a) Right to vote
- (b) Introducing something new
- (c) Move rapidly
- (d) Decline
- (e) Native
- (f) Leader of a clan or tribe
- (g) Hard green stone
- (h) Without Rest
- (I) A group of people united by religious beliefs and opinions
- (k) Connected with sea or navigation.

(b) Give two words starting with following prefixes : (Any five)

m- (ii)non- (iii) mis - (iv) dis - (v) il -

(a) Give the meaning of the following words and use them in sentences of your own (any five)

Trait , cyclic , isolated , juncture , evoke , heritage.

(b) Give synonyms : (any five)

Isolation , charm , rescue , dominant , ancient, basic.

(c) Give antonyms : (any five)

Rapid , unity , protect , applaud , divorce, variegated.

## Unit V

9. Answer the following question.

- (a) What are the two qualities of mind presented in the poem “Where the mind is without feat” ?.
- (b) What is the most significant quality of Indian Civilization ?.
- (c) What happens when the trees get dry ?.
- (d) How can social progress be achieved ?.
- (e) Define Regionalism ?.
- (f) Who started the Home rule League ?.
- (g) What was the slogan tilak gave to the Indian message ?.
- (h) Which quality of Mahatma Gandhi influenced the West most ?.
- (i) In what does the cultural heritage of India lie ?.
- (j) To which authority the residuary powers in India belong ?.

10. (a) Write a note on the spiritual influence of India on the West.

(b) Write a note on Individual Freedom.

**(M/07/152)**  
**BCA-1 Semester Exam-2007**  
**Subject : Maharishi Vedic Science-I**  
**Paper-I**

**Time : 3 hrs.**

**Max. Marks. – 100**

**Min. Marks – 40**

- Note : (i) All the questions are compulsory . सभी प्रश्न अनिवार्य है ।  
(ii) Internal option available. आंतरिक विकल्प उपलब्ध हैं ।

Q.1 Explain the following shlok  
निम्न श्लोक की व्याख्या कीजिए  
अज्ञान तिमिरान्धस्य, ज्ञानान्जन शलाकया ।  
चक्षुरुन्मीलितम् येन तस्मै श्री गुरुवे नमः ॥

अथवा

अखण्ड मण्डलाकारम् व्याप्तमयेन चराचरम् ।  
तदपदम् दर्शितम् येन तस्मै श्री गुरुवे नमः ॥

Q.2 Write the meaning of following  
i) Meditation ii) Chitta iii) Thought iv) Ego  
निम्न का अर्थ स्पष्ट कीजिए ।  
1) ध्यान 2) चित्त 3) विचार 4) अहंकार

Q.3 Write the name of forty areas of Vedic Science and describe in details any two areas  
वेद विज्ञान के 40 क्षेत्रों का नाम लिखिए एवं किन्ही दो क्षेत्रों का विस्तार से वर्णन कीजिए ।

Q.4 Write the definition of consciousness and describe the types of consciousness.  
चेतना की परिभाषा लिखिए एवं उसके प्रकारों का वर्णन कीजिए ।

Q.5 What is Yogasana ? Explain the benefits of any four types of Yogasana  
योगासन क्या है ? किन्ही चार प्रकार के लाभों का वर्णन कीजिए ।

Q.6 What is importance of Transcendental Meditation in our daily life ?  
भावातीत ध्यान का हमारे दैनिक जीवन में क्या महत्व है ?

Q.7 Write Importance of Guru Pujan with Shlok  
श्लोक सहित गुरुपूजन का महत्व लिखिए ।