

# Govt. Pt. J.L.N. Arts and Science P.G. College Bemetara

## ANNUAL ASSIGNMENT

CODE-BCA101

Session – 2019-20  
Max. Marks – 100

Class- BCA-Part-1  
Min. Marks - 34

Subject- (Discrete Mathematics 101)

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**Note:** All questions are compulsory and each carry equal marks.

1. A) Define tautology, show that given statement is a tautology.

$$(p \Leftrightarrow q \wedge r) \Rightarrow (v r \Rightarrow v p)$$

B) Define quantifiers, universal quantifiers and existential quantifiers by giving an example.

2. A) In a Boolean algebra, show that if  $a+b=a+c$  and  $ab=ac$  then  $b=c$ .

B) Replace the switching function by a simpler switching circuit.

$$F(x,y,z) = x.y.z + x.y'.z + x'.y'.z$$

3. A) Design a 4 terminal circuit which gives the real forms to the following three functions.

$$f = xy'z + (xy' + x'y)zw$$

$$g = xy'zw' + x'yzw'$$

$$h = x'y + (xy' + x'y)(z' + w')$$

4. A) if  $R$  is an equivalence relation in the set  $A$ , then prove that  $R^{-1}$  is an equivalence relation in the set  $A$ .

B) Show that the function  $f: R \rightarrow R$  defined by  $f(x) = 5x^3 - 1$  is one one onto where  $R$  is the set of real numbers.

5. Define with example-

i) Simple graph

ii) Regular graph

iii) Degree of a vertex

iv) Complete graph

v) Bipartite graph

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## ANNUAL ASSIGNMENT

Session – 2019-20  
Max. Marks – 100

CODE-BCA102

Class-BCA-Part-1  
Min. Marks - 34

Subject- Computer Fundamentals (102)

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**Note:** All questions are compulsory and each carry equal marks.

1. Write Short Notes on-

- A)- ROM
- B)- Cathod Ray Tube
- C)- Flat Screen Technologies
- D)- DotMatrix Printer

2. Write differences between System software and Application Software.

3. Write differences between compiler and interpreter.

4. Explain the functions of BIOS and Boot Strap Loader

5. Describe CPU architecture with diagram.

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## ANNUAL ASSIGNMENT

Session – 2019-20  
Max. Marks – 100

**CODE-BCA103**

Class-BCA-Part-1  
Min. Marks - 34

Subject- Programming in "C"(103)

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**Note:** All questions are compulsory and each carry equal marks.

1. Write Short Notes on-

- A)- File Accessing Functions (fopen,fclose,fputc,fgetc)
- B)- C Tokens

2. Explain concept of Union with suitable example.

3. Write about multidimensional array.

4. Explain the user defined functions and its types

5. Describe operator and its types.

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## ANNUAL ASSIGNMENT

Session – 2019-20  
Max. Marks – 100

**CODE-BCA104**

Class-BCA-Part-1  
Min. Marks 34

Subject- P.C. Software and Multimedia (104)

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**Note: All questions are compulsory and each carry equal marks.**

**1. Write Short Notes on-**

**A)- Mail merge**

**B)- Data Sheets**

**2. Write about word processing software and its features.**

**3. What is the use of graph (Chart) in MS-Excel describe its various types.**

**4. Explain custom animation in MS- PowerPoint.**

**5. Define data types in MS-Access.**

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## ANNUAL ASSIGNMENT

Session – 2019-20  
Max. Marks – 100

CODE-BCA105

Class-BCA-Part-1  
Min. Marks - 34

Subject- Web Technology & E-Commerce (105)

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**Note:** All questions are compulsory and each carry equal marks.

1. Write Short Notes on-

A)- HTTP

B)- SMTP

2. Explain OSI model of networks.

3. Write use and examples of HTML tags.

A)- Table tag

B)- Unordered list

4. Explain the concept of JAVA Script in web programming.

5. Describe various types of E-Commerce.

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## ANNUAL ASSIGNMENT

Session – 2019-20  
Max. Marks – 100

CODE-BCA106

Class-BCA-Part-1  
Min. Marks - 34

Subject- Foundation English (106)

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**Note:** All questions are compulsory and each carry equal marks.

Q.1 (a) Make sentences using the following words : 20

(i) gain (ii) deny (iii) accept (iv) prosper (v) slow

(b) Correct the spellings of the following words:

(i) Uper (ii) Auther (iii) Suggesst (iv) Adress (v) Succes

(c) Match the following words in column 'A' with their correct meanings/definitions given in column 'B' :

Column 'A'

Column 'B'

(1) mansion

the highest point

(2) zenith

a large house

(3) chieftain

bright

(4) radiant

guess

(5) conjecture

leader of a clan or tribe.

(d) Match the words in list A with their antonyms in list B:-

(A)

(B)

Sparkling

Important

Trifle

Acceptance

Denial

Criticise

Applaud

Release

Arrest

Dull

Q.2 (a) Convert the following sentences into complex sentences: 20

(1) John admitted his guilt

(2) I saw a wounded dog

(3) She was too poor. She could not educate her children

(4) It started raining. I came home.

(5) We saw a big tiger.

(6) I was the first to reach the spot.

(b) Mention the subordinate clauses in the below stated sentences :

- (1) I saw a man who was crying.
- (2) The pen that you lent me is lost.
- (3) The house that you built is beautiful.
- (4) We eat so that we may live.
- (5) I don't know whether he is innocent.
- (6) He talked to a man who was performing.

(c) Construct meaningful sentences by putting together following units in proper order :

- (1) the trees/we noticed smoke/rising high above
- (2) bite/dogs/seldom/barking.
- (3) Jk Rowling/series/Harry Potter/Wrote.
- (4) He knows/everything/as if/talks/Raghav.

(d) Give synonyms of-

Designs                  Beauty Crafty                  Knowledge                  Ancient

Q.3 (a) Fill in the blanks with the correct form of verb given in the bracket : 20

- (1) She.....her work. (finish)
- (2) They.....here yesterday. (be)
- (3) Children.....to play cricket. (love)
- (4) My brother.....a novel now. (read)
- (5) He.....to Shimla last year. (go)
- (6) He.....an American (be)
- (7) She.....nothing to declare (have)

(b) Fill in the blanks with appropriate modals listed below: (can, must, would, may)

- (1) I.....swim very well.
- (2) You.....not drive very fast; we have plenty of time.
- (3) I.....like to live on Mars.
- (4) .....I come in? (5) You.....be tired.

(c) Supply the correct tenses

- (1) The sun rise in the east.
- (2) He has eat all the mangoes.

(3) Prachi is learn music.

(d) Fill in the blank with appropriate modals:

- a) You ---- not smoke at the petrol pumps.
- b) He has sent the message that he ---- be late.
- c) It's raining, I ----- take my raincoat.
- d) ---- you prosper and live long.

(e) Insert prepositions where necessary:

- a) He has been reading ----- two hours.
- b) Aparna is knitting socks ----- war widows.

Q.4 Do as directed

20

- (1) A friend lent me this book. (convert into passive form)
- (2) They turned my offer down. (convert into passive form)
- (3) People speak English all over the world. (Convert into passive form)
- (4) Mona Lisa was painted by Leonardo. (Convert into active form)
- (5) He can read English. (Convert into negative)
- (6) His sister is learning music. (Make interrogative)
- (7) I can come tomorrow. (make interrogative)
- (8) Ruby does not play the piano everyday. (make positive sentence)
- (9) I do not like football. (make positive sentence)
- (10) The lady said, "What a beautiful painting!" (rewrite into Indirect speech)

Q.5 (a) Write a letter to a friend who has had a road accident, wishing him speedy recovery. 20

OR

Write a report on "Water scarcity in your town."

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

Write a telephonic conversation between two friends regarding 'Importance of English'.