

"Dissemination of Education through Knowledge, Science and Culture".
--Shikshanmaharshi Dr. Bapuji Salunkhe

Shri Swami Vivekanand Shikshan Sanstha, Kolhapur's
Padmabhushan Dr.Vasatraodada Patil

Mahavidyalaya, Tasgaon

Tal. Tasgaon. Dist. Sangli-416 312 (Maharashtra)

(Affiliated to Shivaji University, Kolhapur)

DEPARTMENT OF COMPUTER

APPLICATION

**(B.C.A.)
(2018-19)**

A Certificate Course In
C programming using Linux



"Dissemination of Education through Knowledge, Science and Culture".
--Shikshanmaharshi Dr. Bapuji Salunkhe

Shri Swami Vivekanand Shikshan Sanstha, Kolhapur's
Padmabhushan Dr.Vasatraodada Patil

Mahavidyalaya, Tasgaon

Tal. Tasgaon. Dist. Sangli-416 312 (Maharashtra)

(Affiliated to Shivaji University, Kolhapur)

Title of the Certificate Course

"C programming using Linux"

Organizer: Department Of Computer Science & Application

Submitted To

**Internal Quality Assurance cell (IQAC) PDVP College,
Tasgaon**

Total No of Student Participated: 72

Total no of faculty conducted: 02

Kumbhar V.T.
Course Co-ordinator,
Career Oriented Course,

01 AUGUST 2018

To,
The Principal,
P D V P College,
Tasgaon- 416 312.

Sub: - Regarding Permission to commencement of (COC) Certificate course.....


Respected Sir,

With reference to above subject, our college is going to start a certificate course entitled "**C programming using Linux**" for all B.C.A. students in this current academic year. So, I request you to kindly give me permission to commencement above said course.

Please consider the same and oblige.

Thanking you

Yours faithfully



HOD
Head,
Department of Computer Science
Pa. Kumbhari Dr. Vasantodada Purohit
Mahavidyalaya, TASGAON Dist. Sangli

“Dissemination of Education for Knowledge, Science and Culture”

-Shikshanmaharashi Dr.Bapuji Salunkhe

Shri Swami Vivekanand Shikshan Sanstha, Kolhapur's

Padmabhushan Dr. Vasantrodada Patil Mahavidyalaya, Tasgaon

DEPARTMENT OF COMPUTER APPLICATION

The meeting of C.O.C. for preparation of syllabus of a certificate course C programming using Linux was held on Wednesday 01/08/2018. The following members of the committee we represent for the preparation of Syllabus.

Sr. No.	Name	Designation	College Name	Sign
1	Mr.Kumbhar V.T.	Chairman	P.D.V.P.College, Tasgaon	
2	Mirs.Kumbhar N.V.	Member	P.D.V.P.College, Tasgaon	
3	Mr. Santinath Patil	Member	K.W.C.College, Tasgaon	
4	Mr.Toshif Mulla.	Member	Adarsh College, Vita	
5	Mr. Sandeep Patil.	Member	A.C.S.College, Palus	
6	Mr. Wagh A.A.	Member	P.D.V.P.College, Tasgaon	

The syllabus for said course has been prepared and the copy of the same is enclosed herewith for your kind information and further action.

Thanking you,

HOD
Head,
Department of Computer Science
Padmabhushan Dr. Vasantrodada Patil
Mahavidyalaya, Tasgaon (Sangli)

Yours Faithfully,
(Dr. R.R.Kumbhar)
For
Principal
Padmabhushan Dr. Vasantrodada Patil
Mahavidyalaya, Tasgaon (Sangli)



'ज्ञान, विज्ञान जनि सुसंस्कार दासही विज्ञान प्रसार'
-शिवाजीजी डॉ. बापूजी साठुगे

Shri Swami Vivekanand Shikshan Sanstha, Kolhapur Sanchalit,

PADMABHUSHAN DR. VASANTRAODADA PATIL MAHAVIDYALAYA

TASGAON, Dist. Sangli, Pin 416 312 ☎: STD : 02346-250 665, 250575 FAX : 02346-250575

(AFFILIATED TO SHIVAJI UNIVERSITY)

E-mail : san.pdvpm.tas@gmail.com Website : pdvpcollegeetasgaon.com

Established Year - June 1962 P.B. No. 14 Jr.College No. J22-10-001 Sr. College Code No. $\frac{SVACH}{X}$ Jr.C-8

NAAC Reaccredited 'B' Grade (2.78)

Dr. Bapuji Salunkhe
F.A., B.T.
Founder

Hon. Chandrakant (Dada) Patil
President
M.A., M.Ed.
Mumbai Research Department, Maharashtra State

Prin. Abhaykumar Salunkhe
M.A.
Chairman

Prin. Mrs. Shubhangi M. Gawade
M.Sc., B.Ed.
Secretary

Dr. R. R. Kumbhar
M.Sc., M.Phil, P.D.
Principal

Ref. No.: PDVPMT/

Date :

To,
Mr. V. T. Kumbhar,
Assistant Professor,
Department of Computer Application,
P. D. V. P. College, Tasgaon

Subject: - Regarding Meeting of BOS for Syllabus Preparation.....

Respected Sir/Madam,

With reference to the above mentioned subject, you are appointed as Member of Board of Studies (BOS) of Certificate Course entitled "**C programming using Linux**" to be conducted by The Department of Computer Application in our college during the academic year 2018-19.

The meeting of BOS is conveyed on 01st **August 2018** for the preparation of syllabus of Certificate course entitled "**C programming using Linux**". So, you are kindly requested to attend the meeting at 11:00 a.m. in IQAC Office of the college.

Thanking you,

Yours Faithfully,


(Dr. N.A. Kulkarni)
IQAC Director


Yours Faithfully,
(Dr. R.R. Kumbhar)
For



“ज्ञानं विद्यां जतिं सुखं चैव संसृजति विद्यां तस्य”
- विद्यावती अ. ए. ए. मंडळ

Shri Swami Vivekanand Shikshan Sanstha, Kolhapur Sanchit,

PADMABHUSHAN DR. VASANTRAODADA PATIL MAHAVIDYALAYA

TASGAON, Dist. Sangli, Pin 416 312 ☎ STD : 02346-250 665, 250575 FAX : 02346-250575

(AFFILIATED TO SHIVAJI UNIVERSITY)

E-mail : san.pdvpm.tasi@gmail.com Website : pdvpcollegetasgaon.com

Established Year - June 1962 | R. B. No. 14 | Jr College No. J22-10-001 | Sr. College Code No. ^{B/A/C/H} Jr. C-4
X

MAAC Reaccredited "B" Grade (2.76)

Dr. Bapuji Salunkhe
F. Sc. B. Ed.
Founder

Hon. Chattrawat (Gada) Patil
President
Member - Reserve Director, Maharashtra State

Prin. Abhaytumar Salunke
M. A.
Chairman

Prin. Mrs. Shubhangi M. Gawade
M. Ed. B. Ed.
Secretary

Dr. R. R. Kumbhar
M. Ed. M. Ed. Ph. D.
Principal

Ref. No.: PDVPMT/

Date :

To,
Mrs. N. V. Kumbhar,
Assistant Professor,
Department of Computer Application,
P. D. V. P. College, Tasgaon

Subject: - Regarding Meeting of BOS for Syllabus Preparation.....

Respected Sir/Madam,

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Thanking you,

Yours Faithfully,


(Dr. N. A. Kulkarni)
IQAC Director


Yours Faithfully,
(Dr. R. R. Kumbhar)



"ज्ञानं, शिवान् जगति सुखदायकं वास्तवीं विद्याम जगते"
-श्रीमद्गणेश अ. कृष्ण महाराज

Shri Swami Vivekanand Shikshan Sanstha, Kolhapur Sanchhit,

PADMABHUSHAN DR. VASANTRAODADA PATIL MAHAVIDYALAYA

TASGAON, Dist. Sangli, Pin-416 312 ☎ STD : 02346-250 665, 250575 FAX : 02346-250575

(AFFILIATED TO SHIVAJI UNIVERSITY)

E-mail : san.pdvpmi.tas@gmail.com Website : pdvpcollegetasgaon.com

Established Year - June 1962 P.E. No. 14 Jt College No. J22-18-001 Sr. College Code No. ^{SHAD} Jr. C-8

NARC Recognized "A" Grade (2.76)

Dr. Rajaji Salunkhe
F.P. 87
Founder

Dr. Chandrakant (Dada) Patil
F.P. 88
President

Prin. Abhaskumar Salunkhe
M.A.
Chairman

Prin. Mrs. Shubhangi M. Gawade
M.Sc. 102
Secretary

Dr. R. R. Kumbhar
M.A. M.Phil. Ph.D.
Principal

Ref. No.: POVPMT/

Date :

To,
Mr. Santinath Patil,
Assistant Professor,
Department of Computer Application,
K. W. C. College, Sangli.

Subject: - Regarding Meeting of BOS for Syllabus Preparation.....

Respected Sir/Madam,

With reference to the above mentioned subject, you are appointed as Member of Board of Studies (BOS) of Certificate Course entitled "**C programming using Linux**" to be conducted by The Department of Computer Application in our college during the academic year 2018-19.

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Thanking you,

Yours Faithfully,


(Dr. N.A. Kulkarni)
IQAC Director


Yours Faithfully,
(Dr. R.R. Kumbhar)



"एतः शिवः जतिं सुखेन लब्धो शिवः प्रथमः"

-विश्वाम्बरी शं. बापूजी साठगे

Shri Swami Vivekanand Shikshan Sanstha, Kolhapur Sanchalit.

PADMABHUSHAN DR. VASANTRAODADA PATIL MAHAVIDYALAYA

TASGAON, Dist. Sangli, Pin 416 312 ☎ STD : 02346-250 665, 250575 FAX : 02346-250575

(AFFILIATED TO SHIVAJI UNIVERSITY)

E-mail : san.pdvpm.tas@gmail.com Website : pdvpcollege.tasgaon.com

Established Year - June 1962 P.B. No. 14 Jr.College No. J22-19-001 Sr.College Code No. ^{SHIVAJI} Jr.C-8

NAAC Reaccredited "B" Grade (2.78)

Dr. Saouji Salunkhe
F. A. A. S. S.
Founder

Hon. Chandrakant (Dada) Patil
President
Honorary Member, Maharashtra Sahitya Akademi

Prin. Abhaykumar Salunkhe
M.A.
Chairman

Prin. Mrs. Shubhangi M. Gawade
M.A., S.S.S.
Secretary

Dr. R. R. Kumbhar
M.A., M.Phil, Ph.D.
Principal

Ref. No.: PDVPMT/

Date :

To,
Mr. Tashif Mulla,
Assistant Professor,
Department of Computer Application,
Adarsh College, Vita.

Subject: - Regarding Meeting of BOS for Syllabus Preparation.....

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Thanking you,

Yours Faithfully,


(Dr. N.A. Kulkarni)
IQAC Director


Yours Faithfully,
(Dr. R.R. Kumbhar)



"आम, श्याम जलिन सुवर्णतः सन्धिं विभ्रमः सन्धिः"
-श्रीमद्गुरु जी. अर्जुनी नाथ

Shri Swami Vivekanand Shikshan Sanstha, Kolhapur Sanchalit.

PADMABHUSHAN DR. VASANTRAODADA PATIL MAHAVIDYALAYA
TASGAON, Dist. Sangli, Pin 416 312 ☎ STD : 02346-250 665, 250575 FAX : 02346-250575
(AFFILIATED TO SHIVAJI UNIVERSITY)

E-mail : san.pdvpm.tas@gmail.com Website : pdvpcollege.tasgaon.com

Established Year - June 1962 | P.B. No. 14 | Jr College No. J22-10-001 | Sr. College Code No. SINC/Jr.-C-8
X

NAAC Accredited "B" Grade (2.35)

Dr. Sapuji Salunke
Funder

Mr. Chandrashekhar (Dada) Patil
President

Mr. Abhoykumar Salunke
Chairman

Mr. Mrs. Shubhangi M. Gawade
Secretary

Dr. R. R. Kumbhar
Principal

Ref. No.: PDVPMT/

Date :

To,
Mr. Sandeep Patil,
Assistant Professor,
Department of Computer Application,
A. C. S. College, Palus

Subject: - Regarding Meeting of BOS for Syllabus Preparation.....

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(Dr. N.A. Kulkarni)
IQAC Director


Yours Faithfully,
(Dr. R.R. Kumbhar)



"ज्ञानं, विद्यायुक्तं सर्वकारे व्रतं विद्यायुक्तं"

-श्रीगुरुदेवो ज्ञानं देते

Shri Swami Vivekanand Shikshan Sanstha, Kolhapur Sanchalit.

PADMABHUSHAN DR. VASANTRAODADA PATIL MAHAVIDYALAYA

TASGAON, Dist. Sangli, Pin 416 312 ☎ STD : 02346-250 665, 250575 FAX : 02346-250575

(AFFILIATED TO SHIVAJI UNIVERSITY)

E-mail : san.pdvpm.tas@gmail.com Website : pdvpcollegetasgaon.com

Established Year - June 1962 P.B. No. 14 Jt College No. J22-10-001 Sc. College Code No. 5140/4 Jr. C-B

BAAC Reaccredited 'B' Grade (2.76)

Dr. Rajoji Salunkhe

Founder

Prof. Chandrakant (Dada) Patil

President

Prof. Anantkumar Sawant

Chairman

Prof. Mrs. Shubhangi M. Grewale

Secretary

Dr. R. B. Kumbhar

Principal

Ref. No.: PDVPMT/

Date :

To,
Mr. A. A. Wagh,
Assistant Professor,
Department of Computer Application,
P. D. V. P. College, Tasgaon

Subject: - Regarding Meeting of BOS for Syllabus Preparation.....

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Yours Faithfully,


(Dr. N.A. Kulkarni)
IQAC Director


Yours Faithfully,
(Dr. R.B. Kumbhar)

“Dissemination of Education for Knowledge, Science and Culture”

-Shikshanmaharashi Dr. Bapuji Salunkhe

Shri Swami VivekanandShikshanSanstha, Kolhapur's

Padmabhushan Dr.vasatraodada Patil Mahavidyalaya, Tasgaon

DEPARTMENT OF COMPUTER APPLICATION

A Certificate Course in C programming using Linux

Time Table

Academic year 2018-19

DATE: 08-08-2018

Time	Monday	Thursday	Wednesday	Thursday	Friday	Saturday
9 to 10 am	Theory	Theory	Theory	Theory	Theory	Theory
10 to 11am	Practical	Practical	Practical	Practical	Practical	Practical


HOD
Head,
Department of Computer Science
Padmabhushan Dr. Vasatraodada Patil
Mahavidyalaya, Tasgaon (Sangli)


Yours Faithfully,
(Dr. R.R.Kumbhar)
For
Principal
Padmabhushan Dr. Vasatraodada Patil
Mahavidyalaya, Tasgaon (Sangli).

“Dissemination of Education for Knowledge, Science and Culture
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Shri Swami Vivekanand Shikshan Sanstha, Kolhapur's

Padmabhushan Dr. Vasantrodada Patil Mahavidyalaya, Tasgaon

Department of Computer Application

A Certificate Course in C programming using Linux

Time Table

Academic year 2018-19


Time Table

08/08/2018

All the students of B.C.A. (Computer application) are hereby informed that, the examination of C programming using Linux certificate course will be held as per following schedule

SR.NO	PAPER	DAY	DATE	TIME
1	Theory	MONDAY	20/09/2017	8 to 11 am
2	Practical	THURSDAY	21/09/2017	8 to 11 am


HOD
Head,
Department of Computer Science
Padmabhushan Dr. Vasantrodada Patil
Mahavidyalaya, Tasgaon (Sangli)


Yours Faithfully,
(Dr. R.R.Kumbhar)
For
Principal
Padmabhushan Dr. Vasantrodada Patil
Mahavidyalaya, Tasgaon (Sangli).

"Dissemination of Education for Knowledge, Science and Culture" -Shikshanmaharashi Dr. Bapuji Salunkhe
Shri Swami VivekanandShikshanSanstha, Kolhapur's
PadmabhushanDr.vasatraodadaPatilMahavidyalaya, Tasgaon

Department of Computer Application

Paper No.1
C Programming using Linux
(Theory)

Marks:50

Course Syllabus

Course Outcomes:

Perform proceger oriented programming to develop solutions to problems demonstrating usage of control structures, modularity, I/O and other standard language constructs.

Students will be able

1. To understand how C use
2. To learn syntax and semantics of C programming language
3. To learn how to use inbuild functions and operators in C

Unit – 1 Problem Solving Using Computers

(A) Planning the Computer Program: Concept of problem solving, Problem definition, Program design, Debugging, Types of errors in programming, Documentation.

(B) Logical Continuum of Program of Programming : Linux Operating System and C Language, Introduction to GCC Compiler, Components of Compilation Process, Getting Used to the Data Types , Built-In Standard Library, Nitty-Gritty of Programming, structures, Algorithm, Pseudocode, Procedure, Program, C Program Structure, Vi Editor, Whittling the First 'C' Program, Checking Whether the Compiler Is Working, Execution of Make file, Variable Declaration , Input / Output Statement, Format Specifiers, Escape Sequences.

Unit – 2 Control Structures and Arrays

(A) Decision Making and Looping Constructs: Introduction, The if Statement, The if-else Statement, Nested if-else, The Switch Case Statement, The while Loop, The odd Loop(do while), the for Loop, Loop Control Statements, Infinite Loop.

(B) Arrays: Features, Definition, Types of Arrays, Single-Dimensional Array, Two-Dimensional Array, Multi-Dimensional Array.

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Shri Swami VivekanandShikshanSanstha, Kolhapur's

PadmabhushanDr.vasatraodadaPatilMahavidyalaya, Tasgaon Department of

Computer Application

Paper No.1

Evaluation System

Nature of Theory Question Paper: (Maximum Marks 50)

- 1. Choose correct alternatives. 10 Marks(Each 1 mark)**
- 2. Attempt any two (out of three sub questions). 20 Marks(Each 10 marks)**
- 3. Attempt any four out of six sub questions. 20 Marks(Each 5 marks)**

Reference Books:

- 1. "C Programming in an Open Source Paradigm: A Hands on approach", K.S.Oza,**
- 2. ANSI C - E. Balgurusamy**
- 3. Let us C - Y.C. Kanetkar**
- 4. 'C' programming - Dennis Ritchie**
- 5. Programming in 'C' - Venugopal**

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Padmabhushan Dr. Vasantrodada Patil Mahavidyalaya, Tasgaon
Department of Computer Application
A Certificate Course in C programming using Linux
Academic year 2018-19
Student List

BCA III Year

6701	SHRI	KADAM SHRIDHAR NANASO
6702	SHRI	KAMBLE SUMIT PRABHAKAR
6703	SHRI	KORE SHREYAS YUVRAJ
6704	SHRI	KORE SUHAS SANJAY
6705	SHRI	KUMBHAR SOURABH NAGNATH
6706	MISS	MASKE KOMAL SAMBHAJI
6707	MISS	MOHITE MANISHA ASHOK
6708	SHRI	MORE PRAMOD HANMANT
6709	MISS	MULLA SWALEHA JAMIRAHMAD
6710	SHRI	PATIL AKSHAY DHONDIRAM
6711	SHRI	SUTAR AJAY VITTHAL
6712	MISS	TAD AISHWARYA SURESH
6713	MISS	VAGARE GAURI BALU
6714	MISS	YAMAGAR KOMAL VILAS
6715	MISS	SHENDAGE POOJA NANDKUMAR

BCA II Year

6601	MISS	AIVALE ASMITA ASHOK
6602	SHRI	BANSODE NIRANJAN SUDHAKAR
6603	SHRI	BHANDARE RUSHABH ULHAS
6604	MISS	BHOSALE PRADNYA SIDDHESHWAR
6605	SHRI	BHOSALE TANAJI SHIVAJI
6606	SHRI	CHAUDHARI RAKESH SHANTARAM

6607	MISS	CHAVAN REKHA SUBHASH
6608	MISS	CHAVAN RUPALI RAGHUNATH
6609	SHRI	DAGADE PANKAJ VISHNU
6610	MISS	GAVANDI SAYALI TUKARAM
6611	SHRI	GHODAKE AKSHAY DADASO
6612	SHRI	HOWALE SOURAV KIRAN
6613	MISS	JAGDALE RASIKA RAMESH
6614	MISS	KABUGADE SONALI MANIK
6615	SHRI	KAMBLE NIMESH SUBHASH
6616	SHRI	KHARADE RUSHIKESH RAMESH
6617	SHRI	MAHADIK SUDARSHAN DILIP
6618	SHRI	MORE SHRISHAIL SHIVAJI
6619	SHRI	NALAVADE SUJIT RAJARAM
6620	SHRI	PATIL HARSHAD LAXMAN
6621	SHRI	PATIL KALPAK DIPAK
6622	SHRI	PATIL OMKAR MANOHAR
6623	SHRI	PATIL RUTIK SAMBHAJI
6624	MISS	PATIL SEEMA ANANDRAO
6625	SHRI	PATIL VAIBHAV RAJARAM
6626	MISS	PAWAR RUTUJA VILAS
6627	MISS	ROKADE ANKANKSHA BHIMRAO
6628	SHRI	SALUNKHE SANDESH BATTAS
6629	SHRI	SAYYAD SAHIL SHERMAHMAD
6630	SHRI	SHENDAGE NILESH LAXMAN
6631	SHRI	SUVASE PAVAN VIJAY
6632	SHRI	THORAT RAHUL APPASO
6633	SHRI	WAYDANDE ROHAN SAHEBRAO
6634	SHRI	ZAMBRE SACHIN TANAJI
6635	SHRI	GAVANDI AKSHAYKUMAR LAXMAN
6636	SHRI	MALI SAMADHAN APPANNA
6637	SHRI	MANDALE VINAYAK DAGADU
6638	SHRI	PATIL ANKIT SURYAKANT

BCA I Year

6501	SHRI	BHOSALE SURAJ SAMBHAJI
6502	SHRI	CHAVAN MAHESH MARUTI
6503	SHRI	GADHAVE SANTOSH DILIP
6504	MISS	GAVADE POOJA SAMBHAJI
6505	MISS	KHARAT POOJA BABURAO

6506	SHRI	KHOT SAGAR NARAYAN
6507	SHRI	KORE PRATIK PRAKASH
6508	MISS	LAD SHRADDHANJALI GANPATI
6509	SHRI	MALI GURUDAS RAMDAS
6510	MISS	MAWAR KOMAL DINKAR
6511	SHRI	PATIL MAHESH BHASKAR
6512	SHRI	PATIL SHUBHAM UMESH
6513	MISS	PATIL SONALI HINDURAO
6514	SHRI	PUJARI SANDIP SAINATH
6515	MISS	RAHIMATPURE MUSKAN JAFAR
6516	MISS	SAWANT PRANALI NANASO
6517	MISS	PATIL YOGITA SANJAY
6518	SHRI	KADAM PRAVIN SITARAM
6519	SHRI	KAMBLE VINAY KAKASO

QUESTION PAPER
C Programming using Linux

Marks:50

Q1) Select correct alternative and rewrite the sentence:

[10]

- a) _____ is a step by step method for solving the problem under consideration.
- i) Flow chart
 - ii) Error
 - iii) Algorithm
 - iv) Graph
- b) VI editor uses _____ mode to edit Work-Buffer.
- i) Input
 - ii) Command
 - iii) Last Line
 - iv) None of these
- c) _____ is an assembler in GCC package.
- i) as
 - ii) ld
 - iii) gcc
 - iv) epp
- d) _____ represents 32 bits integer in 32 bit GCC.
- i) short int
 - ii) char
 - iii) int
 - iv) long long
- e) _____ is/are labels used in switch statement in C.
- i) case
 - ii) default
 - iii) both (i) and (ii)
 - iv) none of these
- f) Do-while is _____ controlled loop.
- i) entry
 - ii) exit
 - iii) both (i) and (ii)
 - iv) none of these

- g) Switch statement _____ data as input.
- i) interger
 - ii) character
 - iii) both (i) and (ii)
 - iv) none of these
- h) If array is declared as `int A[20]` then the last valid index of an element in A will be _____.
- i) 19
 - ii) 20
 - iii) 21
 - iv) none of these
- i) _____ is a format specifier for double in printf.
- i) %f
 - ii) %lf
 - iii) %Lf
 - iv) %llf
- j) Double precision floating point number needs _____ bytes memory in C.
- i) 4
 - ii) 32
 - iii) 16
 - iv) 8

[20]

Q2) Attempt Any Two from the following:

- a) What is an algorithm? Explain its properties and write an example.
- b) Explain C program structure with appropriate example.
- c) What is loop? Explain all looping statements in C.

[20]

Q3) Attempt Any Four of the following:

- a) Define error. Explain it with its types.
- b) Explain loop control statements break and continue.
- c) Write a note on formatted input statement (`scanf ()`) in C with its format specifiers.
- d) Define infinite loop. Explain it with all loops.
- e) What are different representations of integers in C language? What are the different data types which represent unsigned integers in C.
- f) Write a note on nested if-else statement.

• Problem Solving Using Computers [Papers-13]

Q1) select correct alternatives and rewrite the sentence:

a) Algorithm is a step by step method for solving the problem under consideration.

b) VI editor uses Command mode to edit Work-Buffer.

c) gcc is an assembler in GCC Package.

d) Case, default is labels used in switch statement in c.

e) int represents 32 bits integer in 32 bit GCC.

f) Do-While is exit controlled loop.

g) Switch statement integer, character data as input.

h) If array is declared as `int A[20]` then the ~~set~~ last valid index of an element in A will be 19.

i) %f is a format specifier for double in `printf`.

j) Double precision floating point number needs

8 bytes memory in c.

Q2) Attempt any Two from the following.

a) What is an algorithm? Explain properties and write example.

ANS: An algorithm is a step procedure to solve logical and mathematical problems. A recipe is a good example of an algorithm.

Properties of an algorithm:

- Input: The algorithm must have input values from a specified set.
- Output: The algorithm must produce the output values from a specified set of input values. The output values are the solution of a problem.
- Fitness: For any input, the algorithm must terminate after a finite number of steps.
- Definiteness: All steps of the algorithm must be precisely defined.
- Effectiveness: It must be possible to perform each step of the algorithm correctly and in a finite amount of time. That is, its steps must be basic enough so that, for example, someone using a pencil and a paper could carry them out exactly and in a finite amount of time.

b) Explain C program structure with appropriate example.

ANS: structure is a group of variables of different data types represented by a single name.

Let's take an example to understand the need of a structure in C programming. Let's say we need to store the data of students like student name, age, address, id etc, we can solve this problem easily by using structure.

c) What is loop? Explain all looping statements in C.

ANS: A loop executes the sequence of statements many times until the stated condition becomes false. A loop consists of two parts, a body of a loop and a control statement.

1) While loop in C:

A while loop is the most straightforward looping structure. Syntax of while loop in C programming language. It is an entry-controlled loop.

```
syntax: while (condition)
{
    statements;
}
```

2) Do-while loop in C:

A do-while loop in C is similar to the while loop except that the condition is always executed after the body of a loop. It is also called an exit-controlled loop.

```
syntax: do
{
    statement
}
(while expression).
```

3) For loop in C:

A for loop is a more efficient loop structure in C programming. The general structure of for loop syntax in C is as follows.

```
for (initial value; condition;
    incrementation or decrementation)
{
    statements;
}
```

4) Break statement in C: The Break statement is used mainly in the Switch statement. It is also useful for immediately stopping a loop.

5) Continue statement in C: When you want to skip to the next iteration but remain in the loop, you should use the continue statement.

Q.3) Attempt Any Four of the following.

a) Define error. Explain it with its types.

ANS: An error is something you have done which is considered to be incorrect or wrong, or which should not have been done.

There are three types of error:

- syntax error

- logical error

- run-time error

- syntax error: Just like human languages, computer languages have grammar rules. But while humans are able to communicate with less than perfect grammar, computer can't ignore mistakes, i.e. syntax error.

- Logical Errors :

Logic errors can be the hardest to track down. Everything looks like it is working, you have just programmed the computer to do the wrong thing.

- Run time Errors :

Runtime errors happen as a user is executing your program. The code might work correctly on your machine, but on the webserver, there might be a different configuration.

b) Explain loop control statements break and continue.

ANS: • Break statement :

The Break statement is used to terminate the loop containing it. The control of the program will come out of that loop.

Ex:

Syntax :

```
for char in ' ' break ;
```

The Break statement is almost always used with if... else statement inside the loop

- Continue statements.

The continue statement skips the current iteration of the loop and continue with the next iteration. Its syntax is :

```
continue ;
```

The continue statement is almost always used with the if... else statement.

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Shri Swami Vivekanand Shikshan Sanstha, Kolhapur's

Padmabhushan Dir. vasaotraodada Patil Mahavidyalaya, Tasgaon Department of Computer Application

Attendance Sheet for Academic Year 2018-2019 (BCA - I, II, III)

A Certificate Course In C Programming using Linux

BCA I

Sr. No	Name Of The Student	9-8-18	10-8-18	11-8-18	12-8-18	14-8-18	16-8-18	18-8-18	19-8-18	21-8-18	22-8-18	23-8-18	24-8-18	28-8-18	29-8-18	30-8-18	31-8-18	1-9-18	4-9-18	5-9-18	6-9-18	7-9-18	08-9-18	09-09-18	11-9-18	12-9-18	13-9-18	14-9-18	15-9-18	16-9-18	18-9-18	
1	BHOSALE SURAJ SAMBHUJI	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC
2	CHAVAN MAHESH MARUTI	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC
3	GADHAVE SANTOSHI DILIP	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC
4	GAVADE POOJA SAMBHAJI	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC
5	KHARAT POOJA BABURAO	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC
6	KHOT SAGAR NARAYAN	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC
7	KORE PRATIK PRAKASH	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC
8	LAD SHRADDHANALI GANPATI	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC
9	MALI GURUDAS RAMDAS	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC
10	MAWAR KOMAL DINKAR	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC
11	PATIL MAHESH BHASKAR	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC
12	PATIL SHUBHAM UMESH	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC
13	PATIL SONALI HINDURAO	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC
14	PUHARI SANDIP SANDPATI	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC
15	RAHIMATPURE MUSKAN JAFAR	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC
16	SAWANT PRANALI NANASO	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC

Certificate Course from 09/08/2018 to 18/09/2018

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Department of Computer Application
A Certificate Course in C programming using Linux
Academic year 2018-19
Students Mark List

BCA III Year

Roll No	Name Of Students	Marks
6701	KADAM SHRIDHAR NANASO	40
6702	KAMBLE SUMIT PRABHAKAR	42
6703	KORE SHREYAS YUVRAJ	40
6704	KORE SUHAS SANJAY	42
6705	KUMBHAR SOURABH NAGNATH	44
6706	MASKE KOMAL SAMBHAJI	42
6707	MOHITE MANISHA ASHOK	44
6708	MORE PRAMOD HANMANT	44
6709	MULLA SWALEHA JAMIRAHMAD	44
6710	PATIL AKSHAY DHONDIRAM	42
6711	SUTAR AJAY VITTHAL	44
6712	TAD AISHWARYA SURESH	40
6713	VAGARE GAURI BALU	42
6714	YAMAGAR KOMAL VILAS	40
6715	SHENDAGE POOJA NANDKUMAR	42

BCA II Year

Roll No	Name Of Students	Marks
6601	AIVALE ASMITA ASHOK	40
6602	BANSODE NIRANJAN SUDHAKAR	42
6603	BHANDARE RUSHABH ULHAS	44
6604	BHOSALE PRADNYA SIDDHESHWAR	44
6605	BHOSALE TANAJI SHIVAJI	42
6606	CHAUDHARI RAKESH SHANTARAM	42
6607	CHAVAN REKHA SUBHASH	44
6608	CHAVAN RUPALI RAGHUNATH	40
6609	DAGADE PANKAJ VISHNU	40
6610	GAVANDI SAYALI TUKARAM	42
6611	GHODAKE AKSHAY DADASO	44
6612	HOWALE SOURAV KIRAN	40
6613	JAGDALE RASIKA RAMESH	44
6614	KABUGADE SONALI MANIK	42
6615	KAMBLE NIMESH SUBHASH	40
6616	KHARADE RUSHIKESH RAMESH	42
6617	MAHADIK SUDARSHAN DILIP	44
6618	MORE SHRISHAIL SHIVAJI	40
6619	NALAVADE SUJIT RAJARAM	40
6620	PATIL HARSHAD LAXMAN	42
6621	PATIL KALPAK DIPAK	44
6622	PATIL OMKAR MANOHAR	44
6623	PATIL RUTIK SAMBHAJI	42
6624	PATIL SEEMA ANANDRAO	40
6625	PATIL VAIBHAV RAJARAM	44
6626	PAWAR RUTUJA VILAS	42
6627	ROKADE ANKANKSHA BHIMRAO	42
6628	SALUNKHE SANDESH BATTAS	40
6629	SAYYAD SAHIL SHERMAHMAD	44
6630	SHENDAGE NILESH LAXMAN	42
6631	SUVASE PAVAN VIJAY	44
6632	THORAT RAHUL APPASO	40
6633	WAYDANDE ROHAN SAHEBRAO	42
6634	ZAMBRE SACHIN TANAJI	42
6635	GAVANDI AKSHAYKUMAR LAXMAN	44
6636	MALI SAMADHAN APPANNA	44
6637	MANDALE VINAYAK DAGADU	40
6638	PATIL ANKIT SURYAKANT	44

BCA I Year

Roll No	Name Of Students	Marks
6501	BHOSALE SURAJ SAMBHAJI	44
6502	CHAVAN MAHESH MARUTI	40
6503	GADHAVE SANTOSH DILIP	4
6504	GAVADE POOJA SAMBHAJI	44
6505	KHARAT POOJA BABURAO	42
6506	KHOT SAGAR NARAYAN	44
6507	KORE PRATIK PRAKASH	44
6508	LAD SHRADDHANJALI GANPATI	40
6509	MALI GURUDAS RAMDAS	42
6510	MAWAR KOMAL DINKAR	44
6511	PATIL MAHESH BHASKAR	46
6512	PATIL SHUBHAM UMESH	48
6513	PATIL SONALI HINDURAO	44
6514	PUJARI SANDIP SAINATH	44
6515	RAHIMATPURE MUSKAN JAFAR	46
6516	SAWANT PRANALI NANASO	44
6517	PATIL YOGITA SANJAY	40
6518	KADAM PRAVIN SITARAM	42
6519	KAMBLE VINAY KAKASO	42

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Department of Computer Application
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Academic year 2018-19

Top 3 Students

Roll_No	Name Of The Students	Marks
6512	PATIL SHUBHAM UMESH	48
6515	RAHIMATPURE MUSKAN JAFAR	46
6511	PATIL MAHESH BHASKAR	46



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**DEPARTMENT OF COMPUTER APPLICATION
A CERTIFICATE COURSE IN**

C PROGRAMMING USING LINUX

CERTIFICATE

*This is to certify that Mr./Miss/Mrs.----- of Computer
Application has successfully completed c programming using Linux on 18/01/2019.*

Mr. Vijay . T . Kumbhar
Coordinator

Dr. Milind .S. Hujare
Principal

REPORT SUBMITTED BY
Mr. J. H. Lawand

Prin. Dr. Milind S. Hujare
Principal
Padmabhushan Dr. Vasanttraodada Patil
Mahavidyalaya, Tasgaon (Sangli).