

1.3.3 Number of students undertaking project work/field work/ internships

Programme name	Program Code	List of students undertaking project work/field work/internship	Link to the relevant document
B.A.	1	231	
B.Sc.	4	48	
B.Com.	7	34	
DCA	100	30	
PGDCA	072	40	

* To check with SOP if the same student can be counted more than once



Principal
Govt. Degree College Dabhara
Distt- Sakti C.G.



Structure & Syllabi for One Year DCA Programme

1. The title of the programme is "Diploma in Computer Application (DCA) and introduced from the academic year .2021-2022
2. **Objectives:** The objectives of the Programme shall be to provide sound academic base for proceeding career in Computer Application.
3. **Eligibility for admission:** In order to be eligible for admission to DCA a candidate must be (10+2) with minimum 40% marks in aggregate.
4. **Duration:** The duration of the DCA Programme shall be one year.
5. **The scheme of Examinations:** The DCA Examination will be of 800 marks as given Below:
 - i. Theory Papers: 600 marks
 - ii. Practical Papers: 200 marks
6. **The Standard of Passing and Award of Class**

In order to pass in the examination the candidate has to obtain 33% marks out of 100. (Minimum 33% marks must be obtained separately in theoretical papers as well as practical papers of University Examination).

The class/division will be awarded on the basis of aggregate marks obtained by the candidate for examinations.
7. The Medium of Instruction and Examination (Written and Viva) shall be English/Hindi.
8. **Instructions to Paper Setters:**
 - a. In each theory paper, six questions are to be set and paper has maximum 100 marks. Question paper should be in English as well as Hindi.
 - b. Question No. 1 should be compulsory and cover the entire syllabus. This question should have objective or short answer type questions. It should be of 30 marks.
 - c. Apart from Question No. 1, rest of the paper shall consist of five units as per the syllabus. Every unit should have two questions. However, student may be asked to attempt only 1 question from each unit. Each question should be 14 marks.



शहीद नंदकुमार पटेल विश्वविद्यालय, गढ़ उमरिया, ओड़िशा रोड, रायगढ़

SYLLABUS

DIPLOMA IN COMPUTER APPLICATION (DCA)

SCHEME OF EXAMINATION FOR ONE YEAR DCA PROGRAMME

w.e.f. Session 2017-18

Paper No.	Title of the Paper/s	Term End Examination	Total Maximum Marks	Minimum Passing Marks in Term End Examination
		Maximum marks		
I	Fundamentals of Computers	100	100	33
II	Windows & PC Packages	100	100	33
III	Print Technology and Desktop Publishing	100	100	33
IV	Internet and Web Technology	100	100	33
V	Programming in C	100	100	33
VI	Introduction to Operating System	100	100	33
VII	LAB-I PC Package and DTP Lab	100	100	33
VIII	LAB-II Programming in C Lab	100	100	33
Total Marks			800	



PAPER-I

FUNDAMENTALS OF COMPUTERS

UNIT-1

Brief History of Development of Computers ,Computer System Concept, Computer System Characteristics ,Capabilities and Limitations, Types of Computers-.,Personal Computer (PCs) - IBM PCs, Types of PCs- Desktop, Laptop, Notebook, Palmtop, etc. Computer organization: Basic Component of Computer system - Control Unit, ALU, I/O, Memory.

UNIT-II

Input Devices :Keyboard, Mouse, Joystick, Scanners, Digital Camera, MICR, OCR, OMR, Light pen, Touch Screen, Voice Recognition, Bar Code Reader, Output Devices Monitors - Characteristics and types of monitor, Size, Resolution, Refresh Rate, Dot Pitch, Video Standard - VGA, SVGA, XGA etc. Printers: Impact and Non Impact Printers, Daisy wheel, Dot Matrix, Inkjet, Laser. Plotter, Sound Card and Speakers.

UNIT-III

Bytes and Addressable Memory, Memory Sizes, Types of Memory: RAM, Cache, ROM, Flash Memory, CMOS, Memory Access Times, Expansion Slots And Adapter Cards, Removable Flash Memory, Ports And Connectors: USB Ports, FireWire Ports, Buses, Storage: Characteristics of a Hard Disk, RAID, NAS, External and Removable Hard Disks, Miniature Hard Disks, USB Flash Drives, Cloud Storage, Optical Discs: CDs, DVDs.

UNIT-IV

Software – Definition, Types of Software- System Software, Application Software, System Software- Operating System, Language Translator(Compiler, Interpreter), Utility Programs. Operating system- Definition, Function, Types of operating system- Batch Processing, Multiprogramming, Time Sharing Operating System, Multiuser, Multitasking, Multiprocessing Operating System.

UNIT-V

Network- Direction of Transmissions Flow-Simplex, Half Duplex Full Duplex, Types of Network-LAN, WAN, MAN etc. Topologies of LAN-Ring, Bus, Star, Mesh and Tree topologies. Computer Virus: Virus working principals, Types of viruses, Virus detection and Prevention Viruses on network, Antivirus software's.

Text Books: 1. Fundamentals of Computers, P. K. Sinha, BPB.

2. Fundamental of Computers, Raja Raman V. Prentice Hall of India, New Delhi.

3. Introduction to Computers, Norton, Peter, McGraw Hill.

4. Computer Fundamentals, B. Ram, New Age International Pvt. Ltd.

5. Fundamental of Computer & IT, S.Jaiswal, Wiley dreamtech India.

References: 1. A+ Certification All-in-One Desk Reference for Dummies, G. Clarke

1. IBM PC & Clones: Hardware Trouble Shooting and Maintenance, B.Govindarajalu



PAPER-II

WINDOWS & PC PACKAGES

UNIT-I

Disk Operating System (DOS) and MS Windows 7: Introduction, History & Versions of DOS, DOS System Files. DOS Commands: Internal and External, Executable V/s Non Executable Files in DOS; **MS Windows 7:** Introduction to MS Windows; Features of Windows; Various versions of Windows & its use; Working with Windows; My Computer & Recycle bin ; Desktop, Icons and Windows Explorer; Screen description & working styles of Windows; Dialog Boxes & Toolbars; Working with Files & Folders; simple operations like copy, delete, moving of files and folders from one drive to another, Shortcuts & Autostarts; Accessories and Windows Settings using Control Panel- setting common devices using control panel, modem, printers, audio, network, fonts, creating users, internet settings, Start button & Program lists; Installing and Uninstalling new Hardware & Software program on your computer.

UNIT-II

MS Word 2007: Introduction to MS Office, Introduction to MS Word, Features & area of use. Working with MS Word, , Creating a New Document, Different Page Views and layouts, Applying various Text Enhancements, Working with -Styles, Text Attributes, Paragraph and Page Formatting, Text Editing using various features ; Bullets, Numbering, Auto formatting, Printing & various print options.

UNIT-III

Advanced Features of MS-Word 2007 : Spell Check, Thesaurus, Find & Replace; Headers & Footers, Inserting - Page Numbers, Pictures, Files, Autotexts, Symbols etc., Working with Columns, Tabs & Indents, Creation & Working with Tables including conversion to and from text, Margins & Space management in Document, Adding References and Graphics, Mail Merge, Envelops & Mailing Labels. Importing and exporting to and from various formats.

UNIT-IV

MS Excel 2007: Introduction and area of use, Working with MS Excel, concepts of Workbook & Worksheets, Various Data Types, Using different features with Data, Cell and Texts, Inserting, Removing & Resizing of Columns & Rows, Working with Data & Ranges, Different Views of Worksheets, Column Freezing, Labels, Hiding, Splitting etc., Using different features with Data and Text; Use of Formulas, Calculations & Functions, Cell Formatting including Borders & Shading, Working with Different Chart Types; Printing of Workbook & Worksheets with various options.

UNIT-V

MS PowerPoint 2007: Introduction & area of use, Working with MS PowerPoint, Creating a New Presentation, Working with Presentation, Using Wizards; Slides & its different views, Inserting, Deleting and Copying of Slides; Working with Notes, Handouts, Columns & Lists, Adding Graphics, Sounds and Movies to a Slide; Working with PowerPoint Objects, Designing & Presentation of a Slide Show, Printing Presentations, Notes, Handouts with print options.

Text Books: 1. Comdex Computer Course Kit (windows 7 with office 2010), Gupta Vikas, Dreamtech Publication 2. Mastering MS Office 2000, Professional Edition by Courter, BPB Publication. 3. MS Office 2000 Training Guide by Maria, BPB Publications. 4. MS Office complete by SYBEX. 5. PC Software Made Simple, Taxali, BPB.



PAPER-III

PRINT TECHNOLOGY AND DESKTOP PUBLISHING

UNIT-I

Print Technology: Introductions to Printing, Types of Printers, Inkjet and DM Printer, Screen Printing, Offset Printing, Working of offset Printing, Transparent Printout, Negative & Positives for Plate were making, Laser printers - Use, Types, Advantage of Laser printer in publication.

UNIT-II

Page Maker: Page Maker Icon and help, Tool Box, Styles, Menus etc., Different screen Views, Importing text/Pictures, Auto Flow, Columns, Master Pages and Stories, Story Editor, Menu Commands and short-cut commands, Spell check, Find & Replace, Import Export etc., Fonts, Points Sizes, Spacing etc., Installing Printers, Scaling (Percentages), Printer setup Use of D.T.P. in Advertisements, Books & Magazines, News Paper, Table Editor.

UNIT-III

Adobe Photoshop: Adobe Photoshop CS4: Menus and panels, Exploring the Toolbox, Working with Images: Working with Multiple Images, Rulers, Guides & Grids, Image Size Command, Adjusting Canvas Size & Canvas Rotation, Creating, Selecting, Linking & Deleting Layers, Painting with Selections, Red Eye Tool, Clone Stamp Tool, Color creation, Quick Mask Options, Creating Straight & Curved Paths, Creating Special Effects.

UNIT-IV

CorelDraw X4: CorelDraw X4 Command Bars & Tools, Drawing Area-Objects-Lines, Working with Text & Artistic Media Tool, Fills & Modifying Outlines, Drop Shadows, Importing and Editing OCR Text, Templates, Drawing and Editing Curves and Lines, Three-point Tools, Clipart, Special Characters and Creating Symbols, Working with Layers & Creating a Master Layer, Brush Tools and Adding Objects, Interactive Tools, PowerClip Feature and the Envelope Tool.

UNIT-V

Other Work in DTP: Scanning, Type of Scanner, Importing image, text from scanner, ABBY fine reader, Acrobat (PDF) to Word, and Word to PDF, PDF Editor, PDF Annotator, PDF Infix, Voice to word conversion.

Text Books: 1. How to Do Everything Adobe Photoshop CS4, Chad Perkins, TMH
2. Desktop Publishing Software: Adobe Creative Suite, Adobe Frame Maker, Adobe Indesign, Adobe PageMaker, Altsoft Xml2pdf, Bookmaking Software; Uni.press.org
3. Specifications of Adobe PageMaker (Paperback); Cede Publishing
4. Adobe Pagemaker 7.0 Inver 1st Edition, Kevin G. Proot, Ceneage Learning Pvt Ltd.
5. Corel Draw X4: The Official Guide, (Paperback), Gary David Bouton, TMH

Reference Books: 1. Corel DRAW X4, Deborah Miller, Pearson Education
2. Photoshop CS4 Quicksteps, Carole Matthews & Gary David Bouton, TMH



PAPER-IV

INTERNET AND WEB TECHNOLOGY

UNIT-I

Applications of Internet, History of Internet, WWW, Various Services , World Wide Web (WWW) History, Working, Web Browsers, Its function Concept of Search Engines, client server architecture

UNIT-II

Internet : Evolution, Protocols, Interface Concepts, Internet Vs Internet, Growth of Internet, ISP, Connectivity - Dial-up, Leased line, VSAT etc., URLs, Domain names, Portals, Applications.

E-Mail: Concepts, Basics of Sending & Receiving, E-mail, Free E-mail services.

UNIT-III

Transfer Protocols, Telnet & Chatting, Client/Server Architecture Characteristic, FTP & its usages. Telnet Concept, Remote Logging, Protocols, Internet chatting - Voice chat, text chat.

UNIT-IV

Searching the Web, HTTP, URLs, Web Servers, Web Protocols. Web Publishing Concepts, Domain Name Registration, HTML, Design Tools, HTML Editors, Image Editors.

UNIT-V

HTML Concepts of Hypertext, Versions of HTML, Elements of HTML Syntax, Head & Body Sections, Building HTML Documents, Inserting Texts, Images, Hyperlinks, Backgrounds And Colour Controls, Different HTML Tags, Table Layout and Presentation, Use of Font Size & Attributes, List types and its Tags.

Text Books:

1. Computer Networks, Andrew S. Tanenbaum, PHI / Pearson Education Inc.,
2. Computer Networking: A Top-Down Approach Featuring the Internet, James F. Kurose, Keith W. Ross, Pearson Education Inc., New Delhi.
3. Introduction to Data Communications and Networking, Wayne Tomasi, Pearson Edu
4. Data Communications and Networking, Curt White, CENGAGE Learning Pvt. Ltd.
5. Computer Networks, L. L. Peterson & B. S. Davie, Elsevier Inc,
6. Data Communication and Networking, Behrouz A. Forouzan, Tata McGraw-Hill.

References: 1. Data & Computer Communication, Black, PHI.

2. Data and Computer Communication, William Stallings, Pearson Education.
3. Computer and Communication Networks, Nader F. Mir, Pearson Education, 2007.
4. Communication Networks, Walrand, TMH.
5. Internetworking with TCP/IP, Douglas E. Comer, Prentice Hall India.
6. Computer Networks: Principles, Technologies and Protocols, Natalia Olifer & Victor Olifer, Wiley India Pvt. Ltd., New Delhi.



PAPER-V
PROGRAMMING IN 'C'

UNIT-I

C Language – Character set, Tokens of C - tokens-constant-keywords and identifiers - variables- data types- declaration and assignment of variables defining symbolic constants.- Operators and Expressions: Types of Operators- Arithmetic, Relational and Logical Operators Assignment, increment and decrement of operators - conditional bitwise and special operators - arithmetic expression and its evaluation - hierarchy of arithmetic operations - evaluations, precedence and associativity - mathematical functions.

UNIT-II

Control Branching and Decision-Making in C - If statement Switch statement - GOTO statement - The? : Operators. - Decision - Making and Looping, Types of Loop, nesting in a loop.

Arrays in C Single Two-dimensional and Multi-dimensional arrays. Handling of Character Set: Declaration & Initialization of string variables - reading from and writing to screen -Arithmetic operations - String handling functions.

UNIT-III

Functions: Definition, Library Functions User Defined Functions, Function Prototype, Function Definition, Function Call, Types of User Defined Functions, Arrays and Functions.

Structures and Unions: Definitions initialization and assigning values to members' arrays of structures and arrays within structures structure with in structure- unions - size of structures.

UNIT-IV

Declaration and initialization of pointers - pointer expression - pointer and arrays - pointer and character strings pointers and functions - pointers and structures pointer on pointers.

UNIT-V

File Maintenance in "C": Defining, Opening and closing a file - Input/Output operations on a file- random access to file - command line arguments.

Text Books:

1. Programming in "C" E Balgurusamy Tata mc Graw-Hill
2. The "C" Programming Language: Brian W. Kenigham & Dennis Ritchie
3. The Spirit of "C"- Henry Mulis
4. Let Us C, Yashwant Kanetkar, BPB



PAPER-VI

INTRODUCTION TO OPERATING SYSTEM

Unit – I

Introduction to Operating System

What is an Operating System, Operating Systems Architecture, Types of Operating Systems, Process Model, Process States and Transitions, System Calls.

Unit – II

Process Management

Processes: Process Scheduling, Cooperating Processes, Inter-process Communication, CPU Scheduling: Scheduling Criteria, Scheduling Algorithms, Process Synchronization: Background, Deadlocks.

Unit –III

Memory Management

Main Memory Management: Background, Logical versus Physical Address space, swapping, Contiguous allocation, Paging, Segmentation, Segmentation with Paging, Virtual Memory: Demand Paging.

Unit –IV

Device and Storage Management

File-System Interface, Mass-Storage Structure, Device Management: Techniques for Device Management, Dedicated Devices, Shared Devices, Buffering, Multiple Paths, Secondary-Storage Structure: Disk Structure, Disk Scheduling, Disk Management.

Unit –V

File-System Implementation

A Simple File System, Logical & Physical File System, File-System Interface: Access Methods, Directory Structure, Protection, Free-Space Management, Directory Implementation.

Text Books:

1. Operating System Concepts, Silberschatz and Galvin, Pearson Education Pub.
2. Operating Systems, Madnick E., Donovan J., Tata McGraw Hill,
3. Operating Systems, A. S. Tannenbaum, PHI

Reference Books:

1. Operating Systems Internals and Design Principle, William Stallings, Prentice Hall Publishers
2. Operating Systems - A Concept Based Approach, Dhananjay M. Dhamdhare, TMH



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SYLLABUS

DIPLOMA IN COMPUTER APPLICATION (DCA)

PAPER-VII

LAB-I

PC PACKAGE AND DTP LAB

Note: - Practical should cover syllabus of respected theoretical papers.

The break-up of marks for Practical will be as under :			
Sr. No.	Argument	Maximum Marks	Minimum Passing Marks
1.	Lab Record	20	
2.	Viva-voce	30	
3.	Program Development and Execution	50	
Total Marks		100	33

PAPER-VIII

LAB-II

PROGRAMMING IN C LAB

Note: - Practical should cover syllabus of respected theoretical papers.

The break-up of marks for Practical will be as under :			
Sr. No.	Argument	Maximum Marks	Minimum Passing Marks
1.	Lab Record	20	
2.	Viva-voce	30	
3.	Program Development and Execution	50	
Total Marks		100	33



शहीद नंदकुमार पटेल विश्वविद्यालय रायगढ़ (छ.ग.)
SYLLABUS (NEW COURSE)
P.G. DIPLOMA IN COMPUTER APPLICATION

YEAR WISE PLAN
PGDCA

S.N.	Subject Name	End Semester Examination Maximum Marks	End Semester Examination Minimum Passing Marks
1.	Fundamentals of Computer and Information Technology	100	40
2.	PC- Packages and Computerized Accounting System	100	40
3.	Data Communication and Computer Network	100	40
4.	Programming using 'C' & C++	100	40
5.	Relational Database Management System (Oracle)	100	40
6.	System Analysis & Design	100	40
7.	PC Package and Tally ERP Lab	50	17
8.	C,C++ and Oracle Lab	50	17
9.	Project	100	40



PAPER-I

FUNDAMENTALS OF COMPUTER & INFORMATION TECHNOLOGY

UNIT- I

Introduction to Computer and Information Technology: Brief history of development of computer & generations of computer, Computer system characteristics. Capabilities and limitations block diagram of computer. Types of computer-Analog, Hybrid, digital, micro, mini, mainframe, super computer. Personal computer, types of PCs desktop, laptop, notebook, palmtop etc. Number system Data representation in computers, Number system of computers binary, octal, hexadecimal, representation & their conversion, Coding system ASCII, BCD, EDCDIC etc.

UNIT- II

INPUT/OUTPUT devices: keyboard, mouse, monitor, trackball, joystick, digitizing tablet, scanners, digital cameras, MICR, OCR, OMR, Bar-code reader, Voice recognition, light pen, touch screen, devices, printer, plotter.

UNIT- III

Storage device: Data storage and retrieval methods-sequential, direct and index sequential- various storage devices-magnetic tape, magnetic disks, cartridge tape, data drives hard disk drives, floppy disks, optical disks-CD, VCD, CDR, CDRW, DVD.

UNIT- IV

Computer software: types of software, system software, application software, operating system, utility program, assemblers, compilers and interpreter. Operating system functions, Types batch, single user, multi user, multiprogramming, multiprocessing, Programming languages, machine, assembly, high level, 4GL, their merits and demerits. Computer virus –types of virus, virus detection & prevention virus on network.

UNIT- V

Data Communication & networks: analog and digital signals, modulations, amplitude modular (am), frequency modulation (fm), phase modulation (pm), communication process, direction of transmission flow, simplex, half duplex, full duplex. Types of network LAN, WAN, MAN etc, Topologies of LAN ring, bus star, mesh and tree topologies, communication protocols TCP/IP protocol suit. Communication channels media twisted, coaxial fiber optic, serial and parallel communication, Network operating system (NOS), bridges, hub, routers, repeater and gateways. Modem working and characteristics. Types of connections- dialup leased lines, ISDN, broadband.

Text & Reference Books:

01. Computer fundamentals, P.K. Sinha, BPB
02. Computer today by S.K. Basandra Galgotia Publications.
03. Fundamentals of information by Axexos Leon & Mathews Leon, Vikas Publishing House, New Delhi



PAPER-II

PC PACKAGES & COMPUTERIZED ACCOUNTING SYSTEM

UNIT- I

Fundamental of DOS & Windows: Fundamental of DOS booting process, internal and external commands, creating and executing batch files and directories creating text files. Introduction to windows features, various versions of windows, origin of windows parts of windows screen types and anatomy of windows using.

UNIT- II

Introduction to word processing (MS-word): Advantages of word processing, editing a file using paragraphs, bullets, indentation, ect. Formatting features, printing the documents, it includes paper-size, margins, header and footer, page no., using macros. Advance word processing, header and footers. Finding text, mail merge and other application, mathematical calculations, table handing.

UNIT- III

Introduction to spread sheet (MS-Excel): Definition and advantages of electronic worksheet, working of spread sheet, range and related operations. Setting saving and retrieving work sheet file, inserting deleting coping & moving of data cells, inserting and deleting rows & columns, protecting cell printing a worksheet, erasing a worksheet, graphs, creation, types of graphs creating a chart sheet 3D column charts, moving and changing the size of chart, printing the chart.

UNIT- IV

Introduction to Powerpoint (MS- Powerpoint): Creating a presentation, inserting/deleting slides, different slide views, editing slides,. Slide transition & editing special effects inserting sound, picture, chart, organization chart.

UNIT- V

Accounting software Tally ERP 9: Basic principles of double entry accounting system, creating new company security controls, groups, ledger, voucher type, modifying, new company, voucher entry, generating profit & loss account, trial balance and balance sheet, backup & restore.

Text & Reference Books:

01. Comdex Computer Course Kit (Windows 7 with office 2010), Gupta vikas, Dreamtech Publication.
02. Mastering MS Office 2000, Professional Edition by Courter, BPB Publication.
03. MS Office 2000 Training Guide by Maria, BPB Publication.
04. PC Software, Ravi Taxalli, BPB
05. Computer Fundamental by P.K. Sinha
06. Financial Accounting with Tally 9.001 edition by Vikas Gupta.
07. Mastering Tally ... ERP 9 By A.K. Nandhani.



PAPER-III

DATA COMMUNICATION & COMPUTER NETWORK

UNIT- I

Introduction to Data Communication– Network models, protocols and architecture, standards organizations, line configuration, topology, transmission mode, classification of networks, OSI reference model, TCP/IP model.

UNIT- II

Analog and digital signals, Data encoding, parallel and serial transmission, modems, transmission media: guided media, unguided media, transmission impairment, performance, Synchronous and asynchronous transmission.

UNIT- III

Multiplexing, LLC, error detection and correction, flow control, HDLC, LANs- applications, architecture, Ethernet, 802.3 LANs, token ring, FDDI, IEEE 802.6, circuit switching, packet switching, message switching, connection oriented and connectionless services.

UNIT- IV

Principles of internetworking– connection– oriented, connectionless, Routing concepts, routing algorithms– distance-vector routing, link state routing, shortest path routing. Congestion control, QOS, internetworking, network devices.

UNIT- V

Network security requirements and attacks, public key and private key encryption and digital signatures, digital certificate, firewalls, IDS (Intrusion Detection System)

Text & Reference Books:

01. Computer networks– A.S. Tanenbaum. PHI
02. Data communication and networking – Behrouz A. Forouzan. TMH



PAPER-IV
SYSTEM ANALYSIS AND DESIGN

UNIT- I

The system concept: characteristics, elements and types of a system, the system development life cycle, considerations, for candidate systems prototyping. The role of system analyst.

UNIT- II

System planning and initial investigation: Information Gathering, information gathering tools. Structured analysis, the tools of structured analysis (DFD, Data Dictionary, Decision tree and Pseudo codes Decision Tables), PROS and CONS of each tool, system performance definition description of outputs, feasibility study. Cost/ Benefit analysis, Data analysis, Cost/ Benefit analysis, the system proposal.

UNIT- III

Stages of system design: Design methodologies, development activities, input design, output design forms design, types of forms, basics of form design layout considerations and forms control.

UNIT- IV

File structure: File organization, objectives of database, data structure, system testing and quality assurance, why system testing, what do we test for, the test plan quality assurance, trends in testing, role of data processing auditor, training and documentation.

UNIT- V

Implementing and software maintenance: conversion combating resistance to change, post implementation review, software maintenance, hardware/software selection and the computer contract, suppliers, procedure for hardware/software selection, financial considerations in selection, the computer contract system security disaster recovery planning.

Text & Reference Books:

01. System analysis and design, Elias M. Awad, Galgotia Publication (P) Ltd.
02. System analysis and design, International Ed. Perry Edwards, McGraw Hill Pub.



PAPER-V
PROGRAMMING IN C & C++

UNIT- I

Introduction to "C" Language: Fundamentals, simple I/O statements, reading and writing, data types constants, variable, operators & expressions, library function, control statements, if-else, while, do-while, goto, for statements switch, break, looping statements, functions recursion, arrays, multidimensional arrays, strings & pointers.


UNIT- II

Programming in C++, functions, class, object, constructor and destructor: Call by reference, call by value, return by reference, inline function, constant argument, function overloading, static member function, static data member,. Classes: implementing class, classes and members, accessing class members, implementing class methods, array of object, friend function. Constructor & destructors: parameterized constructor, multiple constructor, constructor with default argument, copy constructor, destructor.

UNIT- III

Operator overloading & type casting: Operator overloading, unary operator overloading, binary operator overloading, manipulates string using operator overloading, type conversions: basic to class, class to basic, class to class.

UNIT- IV

Inheritance,  : single inheritance, multilevel inheritance, multiple inheritance, hybrid inheritance, hierarchical inheritance, virtual base class, abstract class. Virtual function and pure virtual function.

UNIT-V

Pointer & File: Pointer to object, this pointer, Polymorphism File :
opening and close file, detecting end of the file

Text Books:

01. Let us C by Yaswant Kanetkar BPB
02. Object oriented Programming with C++, E.Blagurusamy, Tata mc Graw-Hill
03. C++ Complete reference, Herbert Schildt, TMH.
04. ANSI C programming, E.Blagurusamy, TMH



PAPER-VI

RELATIONAL DATABASE MANAGEMENT SYSTEM (ORACLE)

UNIT- I

Overview of Database Management: Data, information, data independence, database administration roles, DBMS architecture, different kinds of DBMS users importance of data dictionary, contents of data dictionary, types of database languages. Data models: network, hierarchical, relational. Introduction to distributed database, client/server databases, object-relational databases, introduction to ODBC concept

UNIT- II

Relational Model: Entity relationship model as a tool for conceptual design-entities attributes and relationships. ER diagrams; concept of keys: candidate key, primary key, alternate key, foreign key; strong and weak entities, case studies of ER modeling generalization; specialization and aggregation, Converting an ER model into relational schema. Extended ER features, introduction to UML, Representation in UML diagram.

UNIT- III

Structured Query Language (SQL): Relational Algebra: select, project, cross product different types of joins (inner join, outer joins, self join); set operations, tuple relational calculus, domain relational calculus, simple and complex queries using relational algebra, stand alone and embedded query languages, introduction to SQL constructs (SELECT...FROM, WHERE... GROUP BY... HAVING ... ORDERBY...), INSERT, DELETE, UPDATE, VIEW definition and use, temporary tables, nested queries, and correlated nested queries, integrity constraints: Not null, unique, check, primary key, foreign key, reference, triggers.

UNIT- IV

Relational database design: Normalization concept in logical model; pitfalls in database design, update anomalies: functional dependencies join dependencies, Normal forms (1NF, 2NF, 3NF). Boyce code normal form, decomposition, multi-valued dependencies, 4NF, 5NF. Issues in physical design; concepts of indexes, file organization for relational tables, de-normalization,

UNIT- V

Introduction to Query processing and protection the database: parsing, translation, optimization, evaluation and overview of query processing. Protecting the database integrity, security and recovery, Domain constraints, referential integrity, assertion, triggers, security & authorization in SQL

Text & Reference Books:

01. Database system concept, H. Korth and A. Silberschatz, TMH
02. Data Base Management System, C.J. Date, Narosha Publication.
03. An Introduction to database systems – Bipin Desai, Galgotia Publication.
04. SQL, PL/SQL Evan Bayross (2nd edition) BPB publications.



शहीद नंदकुमार पटेल विश्वविद्यालय रायगढ़ (छ.ग.)

SYLLABUS (NEW COURSE) P.G. DIPLOMA IN COMPUTER APPLICATION

PC Package & Tally ERP Lab - I

Note: Practical should be as per syllabus of theoretical papers.

C, C++ & Oracle Lab - II

Note: Practical should be as per syllabus of theoretical papers.

PROJECT

Note:

01. It is compulsory, that students would have group of maximum of two students and project should be done under Government sectors/ Public Sector/ Pvt. Limited S/W Company/ Software Technology park of India/ ISO 9001 certified company etc.
02. The students should not make any project under local or private institutions.
03. The students should make project themselves and project will not be copy of other project.

Steps for Live Project

01. Getting customer's requirements
02. Designs, database and business logics.
03. Developing software application project.
04. Testing and implementing the project.
05. Troubleshooting the project application after implementation.

The break-up of marks for Practical will be as under :			
Sr. No.	Argument	Maximum Marks	Minimum Passing Marks
1.	Lab Record	10	
2.	Viva-voce	20	
3.	Program Development & Execution	20	
Total Marks		50	17

The break-up of marks for Practical will be as under :			
Sr. No.	Argument	Maximum Marks	Minimum Passing Marks
1.	Project Report	25	
2.	Viva-voce/ Presentation	25	
3.	Project Execution	50	
Total Marks		100	40



Part- I

SYLLABUS FOR ENVIROMENTAL STUDIES AND HUMAN RIGHTS FOR UNDER GRADUATE

इन्वाहरमेंटल साइंस के पाठ्यक्रम को स्नातक स्तर भाग- एक की कक्षाओं में विश्वविद्यालय अनुदान आयोग के निर्देशानुसार अनिवार्य रूप से शिक्षा सत्र 2003-2004 (परीक्षा 2004) से प्रभावशील किया गया है। स्वशासी महाविद्यालयों द्वारा भी अनिवार्य रूप से अंगीकृत किया जाएगा।

भाग 1, 2 एवं 3 में से किसी भी वर्ष में पर्यावरण प्रश्न-पत्र उत्तीर्ण करना अनिवार्य है। तभी उपाधि प्रदाय योग्य होगी।

पाठ्यक्रम 100 अंकों का होगा, जिसमें से 75 अंक सैद्धांतिक प्रश्नों पर होंगे एवं 25 अंक क्षेत्रीय कार्य (Field Work) पर्यावरण पर होंगे।

सैद्धांतिक प्रश्नों पर अंक - 75 (सभी प्रश्न इकाई आधार पर रहेंगे जिसमें आंतरिक विकल्प रहेगा)

- | | | |
|----------------------|---|--------|
| (अ) लघु प्रश्नोंत्तर | - | 25 अंक |
| (ब) निबंधात्मक | - | 50 अंक |

Field Work - 25 अंको का मूल्यांकन आंतरिक मूल्यांकन पद्धति से कर विश्वविद्यालय को प्रेषित किया जावेगा। अभिलेखों की प्रायोगिक उत्तर पुस्तिकाओं के समान संबंधित महाविद्यालयों द्वारा सुरक्षित रखेंगे।

उपरोक्त पाठ्यक्रम से संबंधित परीक्षा का आयोजन वार्षिक परीक्षा के साथ किया जाएगा।

पर्यावरण विज्ञान विषय अनिवार्य विषय है, जिसमें अनुत्तीर्ण होने पर स्नातक स्तर भाग-एक के छात्र/छात्राओं को एक अन्य विषय के साथ पूरक की पात्रता होगी। पर्यावरण विज्ञान के सैद्धांतिक एवं फील्ड वर्क में संयुक्त रूप से 33% (तैतीस प्रतिशत) अंक उत्तीर्ण होने के लिए अनिवार्य होंगे।

स्नातक स्तर भाग-एक के समस्त नियमित/भूतपूर्व/अमहाविद्यालयीन छात्र/छात्राओं को अपना फील्ड वर्क सैद्धांतिक परीक्षा की समाप्ति के पश्चात् 10 (दस) दिनों के भीतर संबंधित महाविद्यालय/परीक्षा केन्द्र में जमा करेंगे एवं महाविद्यालय के प्राचार्य/केन्द्र अधीक्षक, परीक्षकों की नियुक्ति के लिए अधिकृत रहेंगे तथा फील्ड वर्क जमा होने के सात दिनों के भीतर प्राप्त अंक विश्वविद्यालय को भेजेंगे।



SHAHEED NANDKUMAR PATEL VISHWAVIDYALAYA RAIGARH (C.G.)
ENVIROMENTAL STUDIES

Part- I

SYLLABUS FOR ENVIROMENTAL STUDIES AND HUMAN RIGHTS FOR UNDER GRADUATE
(PAPER CODE – 0828)

M.M.75

UNIT - I THE MULTI DISCIPLINAITY NATURE OF ENVIRONMENTAL STUDIES:

Definition, Scope and Importance

Natural Resources:

Renewable and Non-renewable Resources:

Natural resources and associated problems

(a) Forest resources: Use and over-exploitation. deforestation Timber extraction, mining, dams and their effects on forests and tribal people and relevant forest Act.

(b) water resources: Use and over-utilization of surface and ground water, floods drought, conflicts over water, dams benefits and problems and relevant Act.

(c) Mineral resources: Use and exploitation, environmental effects of extracting and using mineral resources.

(d) Food resources: world food problems, changes caused by agriculture and overgrazing, effects of modern agriculture, fertilizer-pesticide problems, water logging, salinity.

(e) Energy resources: Growing energy needs. Renewable and non- Renewable energy sources, use of alternate energy sources.

(f) Land resources: Land as a resource. land degradation. man induced landslides soil erosion and desertification.

UNIT- II ECOSYSTEM

(12 Lecturer)

(a) Concept, Structure and Function of an ecosystem

- Producers, consumers and decomposers.
- Energy flow in the ecosystem
- Ecological succession.
- Food chains, food webs and ecological pyramids.
- Introduction, Types, Characteristic Features. Structure and Function of Forest, Grass, Desert and Aquatic Ecosystem.

(b) Biodiversity and its Conservation

- Introduction – Definition: genetic, species and ecosystem diversity.
- Bio-geographical classification of India.
- Value of biodiversity: consumptive use productive use social, ethics, aesthetic and option values.
- Biodiversity at global, national and local levels.
- India as mega- diversity nation.
- Hot spots of biodiversity.
- Threats to biodiversity: habitat loss, poaching of wildlife, man-wild life conflict.
- Endangered and endemic species of India.
- Conservation of biodiversity: In situ and Ex-situ conservation of biodiversity.

UNIT-III ENVIRONMENTAL POLLUTION

(12 Lecturer)

Definition

(a) Causes, effect and control measures of-

- Air water, soil, marine, noise, nuclear pollution and Human population.
- Solid waste management: Causes, effects and control measures of urban and industrial wastes.
- Role of individual in prevention of pollution
- Disaster Management : floods, earthquake, cyclone and landslides.

(b) Environmental Management

(12 Lecturer)

- From Unsustainable to sustainable development.
- Urban problems related to energy.
- Water conservation, rain water harvesting, watershed management.
- Resettlement and rehabilitation of people, its problems and concerns.
- Environmental ethics : issues and possible solutions.
- Climate change, Global warming, acid rain, ozone layer depletion, nuclear accidents and holocaust. Wasteland reclamation.
- Environmental Protection Act : issues Involved in enforcement of environmental legislation.
- Role of Information technology in Environmental and Human Health

UNIT - IV

General background and historical perspective. Historical development and concept of Human Rights, Meaning and definition of Human rights Kind and Classification of human Rights.

Protection of Human Rights Under the UNO charter, Protection of Human Rights under the Universal Declaration of Human Rights 1948.

Convention on the Elimination of all Forms of Discrimination against woman.

Convention on the rights of the Child 1989

UNIT- V

Impact of Human Rights norms in India, Human Rights Under the Constitution of India. Fundamental Rights under the Constitution of India, Directive Principles of State Policy under the Constitution of India. Enforcement of Human Rights in India.

Protection of Human Rights under the Human Rights Act, 1993 – national Human Rights Commission State Human Rights Commission and Human Rights court in India.

Fundamental Duties under the Constitution of India

Reference/Books Recommended :

1. S.K. Kapoor - Human Rights under international Law and the Indian Law.
2. HO Agrawal – International law and Human Rights
3. एस. के. कपूर – मानव अधिकार
4. जे. एन. पान्डेय – भारत का संविधान
5. एम.डी. चतुर्वेदी – भारत का संविधान
6. J.N. Pandey – Constitutional Law of India
7. Agrawal K.C. 2001 Environmental Biology, Nidhi Pub. Ltd Bikaner
8. Bharucha Erach the Biodiversity of India, Mapin Pub. Pvt. Ltd. Ahmedabad 380013 India, Email : mapin@icenet.net (R)
9. Buinner R.C. 1989, Hazardous Waste Incineration Mc Graw Hill Inc. 480p
10. Clark R.S. Marine Pollution Clarendon press Oxford (TB)
11. Cuninggham W.P. cooper T.H. Gorhani, E&Hepworth M.T. 200
12. Dr. A.K. Environmental Chemistry, Wiley Eastern Ltd.
13. Down to Earth Center for Science and Environmental (R)
14. Gloick. H.P. 1993 Water in crisis. Pacific Institute Ibr studies in Deve' Environment & Security. Stockholm Eng. Institute Oxbrd LUniversity Press m 4T3p
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16. Heywood V.H. & Watson R.T. 1995 Global Biodiversity Assessment. Cambridge Uni. Press 1140P
17. Jadhav H. & Bhosale.V.H.1995 .Environmental Protection and Law. Himalaya pub. House, Delhi 284P
18. Mckinney M.L. & School R.M.1996 ,Environmental Science systems & Solutions, web enhanced edition, 639P
19. Mhaskar A.K. Matter Hazardous, Techno-science Publication (TB)
20. Miller T.G. Jr. Environment Science. Wadsworth Publishing Co.(TB)
21. Odum, E.P. 1971 , Fundamentals of Ecology. W.B Saunders Co. USA 574p
22. Rao M.N. & Datta. A.K. 1987. Waste water treatment Oxford & IBH Pub. Co. Pvt. Ltd. 345p
23. Sharma B.K. 2001. Environmental Chemistry. Goel Pub. House. Meerut
24. Survey of the Environment, The Hidu (M)
25. Townsend C. Harper J. and Michael Begon. Essentials of Ecology. Blackwell Science (TB)
26. Trivedi R.K. Handbook of Environment Laws. Rules, Guidelines, Compliances and Standards, Vol I and II, Environment Media (R)
27. Trivedi R.K. and P.K. Goel, Introduction to air pollution. Techno-science publication (TB)
28. Wanger K.D.1998 ,Environmental Management. W.B. Saunders Co. Philadelphia' USA 499P

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EXAM CODE AND NAME :- 001 - B.A. PART-I (ONE) (REGULAR)						
SUBJECT :- 03 - ENVIRONMENTAL STUDIES & HUMAN RIGHTS				Date of Practical Examination :-		
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SN	User ID	Enrollment No.	Roll No	Name of Student	Father's/Husband's Name	Signature
1	2	3	4	5	6	7
1	SNP22006709	SNP2200655	100714	AARTI	HULASH RAM	
2	SNP22027757	SNP2200656	100715	AARYAN TANDAN	HEMANT TANDAN	
3	SNP22019052	SNP2200657	100716	AASTHA	YOGESH	
4	SNP22015547	SNP2200659	100717	AJAY KUMAR	RAMKRISHNA	
5	SNP22000677	SNP2200658	100718	AJAY KUMAR	DILESHWAR	
6	SNP22004953	SNP2200660	100719	AJAY KUMAR	GANPAT LAL	
7	SNP22004226	SNP2200661	100720	ALOK DUTT BHOI	GURU DUTT BHOI	
8	SNP22014798	SNP2200662	100721	ANIKET	JAY RAM	
9	SNP22008424	SNP2200663	100722	ANIL KUMAR	PUNAM	
10	SNP22022857	SNP2200664	100723	ANJALI	ROOPLAL	
11	SNP22019573	SNP2200665	100724	ANJALI BHASKAR	PADUMLAL	
12	SNP22004954	SNP2200666	100725	ANKIT	AMRITA	
13	SNP22014715	SNP2200667	100726	ARTI SIDAR	GAJENDRA	
14	SNP22043831	SNP2200668	100727	ARUN KUMAR	HEERA LAL	
15	SNP22008694	SNP2200669	100728	AVINASH PATEL	BHISHAMBAR DAYAL PATEL	
16	SNP22003980	SNP2200670	100729	BABITA SON	PRAKASH SON	
17	SNP22008846	SNP2200671	100730	BHARTI	DHARAM LAL	
18	SNP22019834	SNP2200672	100731	BHARTI YADAV	SANTOSH KUMAR	
19	SNP22014904	SNP2200674	100733	BHED KUMAR SAHU	SHRAWAN KUMAR	
20	SNP22012925	SNP2200675	100734	BHOJRAM	DARAS SINGH	
21	SNP22013677	SNP2200676	100735	BHOLESH KUMAR BANJARE	RAJKUMAR	
22	SNP22002708	SNP2200677	100736	BHORSAVITA	PANCH RAM	
23	SNP22010552	SNP2200678	100737	BHUNESHWAR BAGHEL	LAXMI PRASAD	
24	SNP22015694	SNP2200679	100738	BINDESHWARI	ISHWAR LAL	

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1	2	3	4	5	6	7
25	SNP22011900	SNP2200681	100740	CHANDRA KUMAR	VRINDA LAL	
26	SNP22023125	SNP2200682	100741	CHANDRAKANTI	KESHAR LAL	
27	SNP22009290	SNP2200683	100742	CHHAT RAM	KUNJRAM	
28	SNP22004556	SNP2200684	100743	DALESHWARI	KHAGESHWAR	
29	SNP22004697	SNP2200685	100744	DEEPAK	ANJOR LAL	
30	SNP22019249	SNP2200686	100745	DEEPAK KUMAR	CHANDAN	
31	SNP22007004	SNP2200687	100746	DEEPANSHU SAHU	TEKLAL SAHU	
32	SNP22018345	SNP2200688	100747	DEVENDRA KUMAR	RAMKUMAR	
33	SNP22011017	SNP2200689	100748	DEVID	RESHAM LAL	
34	SNP22000358	SNP2200690	100749	DEVIKA SIDAR	PUSLAL SIDAR	
35	SNP22008163	SNP2200691	100750	DHAN PRABHA KHUNTE	PRABHU LAL KHUNTE	
36	SNP22009184	SNP2200692	100751	DHANESHWAR	HEMLAL	
37	SNP22017018	SNP2200694	100752	DHANESHWARI	UTTARA KUMAR SIDAR	
38	SNP22008809	SNP2200693	100753	DHANESHWARI	TIRITH RAM	
39	SNP22006154	SNP2200695	100754	DHRUVRAJ DHARMA	ASHOK KUMAR DHARMA	
40	SNP22044027	SNP2200696	100755	DIGAMBAR SINGH	BUDHESHWAR PRASAD	
41	SNP22017566	SNP2200697	100756	DIPAK KUMAR	SURENDRA KUMAR	
42	SNP22001088	SNP2200698	100757	DIPESH PATEL	HIRDAY KUMAR PATEL	
43	SNP22006869	SNP2200699	100758	DIPTI	RADHESHYAM	
44	SNP22003844	SNP2200700	100759	DIVYA KARSH	DILIP KARSH	
45	SNP22011584	SNP2200701	100760	DIVYA MAHANT	SANTOSH DAS	
46	SNP22007363	SNP2200702	100761	DIVYA PATEL	DILIP PATEL	

47	SNP22024630	SNP2200704	100762	DIWAKAR RAJ SINGH	SIDAR SINGH SIDAR	
48	SNP22009954	SNP2200705	100763	DIWAS KUMAR	PANCH RAM	
<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>Sign & Seal of Principal/College Name Mobile</p> </div> <div style="width: 45%;"> <p>Sign & Seal of HOD/Internal Examiner Name Mobile</p> </div> </div>						

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1	2	3	4	5	6	7
49	SNP22013743	SNP2200706	100764	DRAUPADI	AMRIKA PRASAD	
50	SNP22002983	SNP2200707	100765	DRAUPATI	SANTANU LAL	
51	SNP22005332	SNP2200708	100766	DURGA	RAM LAL	
52	SNP22002018	SNP2200709	100767	DUSHYANT KUMAR	RAMESHWAR DAS	
53	SNP22006027	SNP2200710	100768	DWARIKA	SAHAS RAM BHASKAR	
54	SNP22006471	SNP2200712	100769	GOVINDA MAITRY	HEMCHARAN MAITRY	
55	SNP22020280	SNP2200713	100770	GURUCHARAN	PANCHRAM	
56	SNP22023829	SNP2200714	100771	HEMANT KUMAR	NARESH KUMAR	
57	SNP22016939	SNP2200715	100772	HET RAM	PHEKU LAL	
58	SNP22023830	SNP2200716	100773	HIRA LAL KHUNTE	LOKNATH KHUNTE	
59	SNP22018384	SNP2200718	100775	HITESH KUMAR	NETRAM	
60	SNP22020512	SNP2200719	100776	ISHWARI KUMARI	NAKUL SINGH	
61	SNP22013282	SNP2200720	100777	JAMUNA BAI	MELA RAM	
62	SNP22013597	SNP2200721	100778	JANSHAN	ASHWANI KUMAR	
63	SNP22019055	SNP2200722	100779	JAY KUMAR	NANDLAL	
64	SNP22003767	SNP2200723	100780	JAY SINGH	ROHIT KUMAR	
65	SNP22001459	SNP2200724	100781	JITENDRA KUMAR	SAHETTAR	
66	SNP22015442	SNP2200725	100782	JYOTI	BUDDESHWAR	
67	SNP22043839	SNP2200726	100783	JYOTI KHUNTE	KAMAL KISHOR KHUNTE	
68	SNP22009783	SNP2200727	100784	KAMESH KUMAR	MOHAN LAL	

69	SNP22004980	SNP2200728	100785	KAMLESH KUMAR	BHUNESHWAR PRASAD	
70	SNP22006019	SNP2200729	100786	KARAM SINGH	BHIKHARI LAL	
71	SNP22016717	SNP2200732	100787	KARAN	TEEJRAM	
72	SNP22003904	SNP2200731	100788	KARAN	ATMARAM	

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1	2	3	4	5	6	7
73	SNP22014721	SNP2200733	100789	KARINA SIDAR	RAMRATAN	
74	SNP22015029	SNP2200734	100790	KAUSHAL PRASAD	BHAGWAT PRASAD	
75	SNP22042317	SNP2200735	100791	KAUSHAL PRASAD SIDAR	BABU LAL SIDAR	
76	SNP22018631	SNP2200736	100792	KESHAV	BHUVAN LAL	
77	SNP22017005	SNP2200737	100793	KHEMRAJ	RAMLAL	
78	SNP22011290	SNP2200738	100794	KHILESHWAR	DAYALU RAM	
79	SNP22004639	SNP2200739	100795	KHILESHWARI	FUL SINGH	
80	SNP22004663	SNP2200740	100796	KHUSHABU	SAMPAT LAL	
81	SNP22026974	SNP2200741	100797	KHUSHBOO JAISWAL	JAY KUMAR JAISWAL	
82	SNP22021037	SNP2200742	100798	KHUSHBU YADAV	DWARIKA PRASAD YADAV	
83	SNP22030582	SNP2200743	100799	KIRAN	KUMAR	
84	SNP22024694	SNP2200744	100800	KIRAN	LUKESHWAR	
85	SNP22006513	SNP2200746	100802	KIRAN SHRIWAS	GHASIYA RAM	
86	SNP22009071	SNP2200747	100803	KULDEEP CHANDRA	DUSHYANT CHANDRA	
87	SNP22013136	SNP2200748	100804	KULDEEP SAHU	UTTRA SAHU	
88	SNP22026925	SNP2200749	100805	KULJEET NAGRAJ	SHITAL SINGH	
89	SNP22035746	SNP2200750	100806	KUNJBIHARI CHANDRA	JEET RAM CHANDRA	
90	SNP22016891	SNP2200751	100807	LAKESHWAR	GURUBAR SINGH	

91	SNP22004580	SNP2200752	100808	LAKHAN LAL	DHARAM LAL	
92	SNP22010948	SNP2200753	100809	LALIT	BHAGIRATHI	
93	SNP22023716	SNP2200754	100810	LAXMI DUBEY	PURANDAR LAL	
94	SNP22015124	SNP2200755	100811	LAXMI KURREY	RAM LAL	
95	SNP22011407	SNP2200756	100812	LAXMIN CHANDRA	GHAN SHYAM	
96	SNP22010906	SNP2200757	100813	LOMASH	SHYAMSUNDER	

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1	2	3	4	5	6	7
97	SNP22002389	SNP2200758	100814	LUCKY YADAV	MAHAVIR YADAV	
98	SNP22009135	SNP2200759	100815	MADHU KUMARI CHANDRA	TARA LAL CHANDRA	
99	SNP22003062	SNP2200760	100816	MADHURI	PRATAP SINGH	
100	SNP22005081	SNP2200761	100817	MAHARSHI KUMAR	SAHASRAM	
101	SNP22018691	SNP2200762	100818	MAHENDRA BAGHEL	UDAY BAGHEL	
102	SNP22007494	SNP2200764	100820	MAMTA	SONAU RAM	
103	SNP22001019	SNP2200765	100821	MANGALMATI	SUDARSHAN	
104	SNP22004766	SNP2217970	100822	MANISH KUMAR SIDAR	LABHO SIDAR	
105	SNP22001369	SNP2200766	100823	MANISHA	SUMIT RAM	
106	SNP22019984	SNP2200767	100824	MANJU	PAWAN SAY	
107	SNP22017294	SNP2200768	100825	MANJU MAITRY	DEVNARAYAN	
108	SNP22007358	SNP2200769	100826	MANJU PATEL	MADAN LAL PATEL	
109	SNP22008741	SNP2200770	100827	MANSI	DHANIRAM	
110	SNP22013451	SNP2200771	100828	MEGHA YADAV	ROHIT KUMAR YADAV	
111	SNP22042876	SNP2217971	100829	MONIKA MEHAR	JAY LAL MEHAR	
112	SNP22005950	SNP2200773	100830	NAGESHWAR NIRALA	BASANT KUMAR	

113	SNP22015281	SNP2200774	100831	NAMIKA	OMPRAKASH	
114	SNP22006137	SNP2200775	100832	NANDANI	LAXMI KUMAR	
115	SNP22005899	SNP2200776	100833	NEELAM	GHANSHYAM	
116	SNP22007596	SNP2200777	100834	NEELAM KARSH	CHHOTE LAL KARSH	
117	SNP22011122	SNP2200778	100835	NEELAM PANKAJ	AJIT PANKAJ	
118	SNP22008848	SNP2200780	100836	NEHA	RADHE SHYAM	
119	SNP22017486	SNP2200779	100837	NEHA	PREM Shankar	
120	SNP22008617	SNP2200781	100838	NIKHIL KUMAR	ASHWANI SIDAR	

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**SHAHEED NANDKUMAR PATEL VISHWAVIDYALAYA, RAIGARH (CHHATTISGARH)
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COLLEGE CODE & NAME :- 304 - GOVT. DEGREE COLLEGE DABHARA DIST.-JANJGIR-CHAMPA (C.G.)						
EXAM CODE AND NAME :- 001 - B.A. PART-I (ONE) (REGULAR)						
SUBJECT :- 03 - ENVIRONMENTAL STUDIES & HUMAN RIGHTS				Date of Practical Examination :-		
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SN	User ID	Enrollment No.	Roll No	Name of Student	Father's/Husband's Name	Signature
1	2	3	4	5	6	7
121	SNP22011559	SNP2200782	100839	NIKHIL SIDAR	TANKESHWAR SIDAR	
122	SNP22028278	SNP2200783	100840	NISHA	KARAM SINGH	
123	SNP22012083	SNP2200785	100841	NITU BARETH	JAYDHAR RAM BARETH	
124	SNP22005439	SNP2200786	100842	OM KUMAR	SAKHI RAM	
125	SNP22004986	SNP2200787	100843	OMNARAYAN	SANTOSH DAS	
126	SNP22008552	SNP2200788	100844	OMPRAKASH	PREM LAL	
127	SNP22008914	SNP2200789	100845	PADMINI	SURESH KUMAR	
128	SNP22015202	SNP2200790	100846	PADMINI	RAM KUMAR	
129	SNP22031195	SNP2200791	100847	PARAMANAND	DILCHAND	
130	SNP22002109	SNP2200792	100848	PARAMANAND	LILADHAR	
131	SNP22010077	SNP2200793	100849	PARVATI	DHANSAY	
132	SNP22009509	SNP2200794	100850	PAYAL CHANDRA	ASHUTOSH KUMAR CHANDRA	
133	SNP22011770	SNP2200795	100851	POOJA SIDAR	JAIT RAM	
134	SNP22012970	SNP2200796	100852	PRAKASH	MANIJAR	

135	SNP22002377	SNP2200797	100853	PRAMOD	BABBAR SINGH	
136	SNP22002276	SNP2200798	100854	PRATIBHA	YASHMANI	
137	SNP22011097	SNP2200799	100855	PREMLATA	LABHO RAM	
138	SNP22003775	SNP2200800	100856	PRIYA CHANDRA	RAMKRISHNA CHANDRA	
139	SNP22004733	SNP2200803	100858	PURNIMA	YADRAM	
140	SNP22001505	SNP2200802	100859	PURNIMA	RAMPAL	
141	SNP22007711	SNP2200804	100860	PUSHPALATA BHARDWAJ	SANJAY BHARDWAJ	
142	SNP22012477	SNP2200806	100862	RAGINI	MANA SINGH	
143	SNP22004882	SNP2200808	100863	RAHUL	ASHOK	
144	SNP22019837	SNP2200807	100864	RAHUL	PURUSHOTTAM	

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1	2	3	4	5	6	7
145	SNP22016224	SNP2200809	100865	RAHUL	KUNJ RAM	
146	SNP22002186	SNP2200810	100866	RAJ MIRI	SHIV LAL	
147	SNP22009927	SNP2200811	100867	RAJA BABU	RATH LAL	
148	SNP22008059	SNP2200812	100868	RAJA RAM	LOK NARAYAN	
149	SNP22006147	SNP2200813	100869	RAJESH	SEETA RAM	
150	SNP22013080	SNP2200814	100870	RAJNI DHIRHE	BUND RAM	
151	SNP22029374	SNP2200816	100871	RAKESH	KACHHARU	
152	SNP22005483	SNP2200815	100872	RAKESH	BASANT LAL	
153	SNP22021978	SNP2200817	100873	RAM KUMARI	DEENDAYAL	
154	SNP22014427	SNP2200819	100875	RAMBHA SIDAR	FAGNU SIDAR	
155	SNP22005866	SNP2200820	100876	RAMESHWAR	CHHOTELAL	
156	SNP22005400	SNP2200821	100877	RANJU MALI	JAGNATHIYA	

157	SNP22006699	SNP2200822	100878	RAVI	SHRILAL	
158	SNP22007228	SNP2200823	100879	REENA	CHANDAN DAS	
159	SNP22005252	SNP2200824	100880	REENA SONE	DHARAM LAL SONE	
160	SNP22005312	SNP2200825	100881	RENSHU BANJARE	RAJESH BANJARE	
161	SNP22020778	SNP2200826	100882	RIYA SAHU	TUKENDRA KUMAR SAHU	
162	SNP22023601	SNP2200827	100883	ROMESH	RAGHUNARAYAN	
163	SNP22000186	SNP2200828	100884	ROOPA MAHANT	ARJUN DAS	
164	SNP22011712	SNP2200829	100885	ROOPESHWARI	JAIT RAM	
165	SNP22018805	SNP2200830	100886	ROSHAN	TEJRAM	
166	SNP22009283	SNP2200831	100887	RUBEE	BAISHAKHU	
167	SNP22013993	SNP2200832	100888	RUBESH KUMAR	RESHAM LAL	
168	SNP22009003	SNP2200833	100889	RUBI	TIKARAM	

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169	SNP22019251	SNP2200834	100890	RUP KUMAR MAITRY	KASHI RAM MAITRY	
170	SNP22000208	SNP2200836	100891	SAKSHI ANCHAL	MOTI LAL	
171	SNP22003953	SNP2200837	100892	SAKSHI PATEL	BHOJ RAM PATEL	
172	SNP22005145	SNP2200839	100893	SANDEEP	NARESH	
173	SNP22006362	SNP2200838	100894	SANDEEP	YAD RAM	
174	SNP22005361	SNP2200840	100895	SANGITA	SANTOSH	
175	SNP22005853	SNP2200841	100896	SANJANA	PYARE LAL	
176	SNP22002232	SNP2200842	100897	SANJANA	RAKESH	
177	SNP22023787	SNP2200843	100898	SANJEET	VED RAM	
178	SNP22009325	SNP2200844	100899	SAPNA SONE	AMRIT LAL	

179	SNP22011221	SNP2200845	100900	SATISH KUMAR AJAY	KHEM LAL	
180	SNP22021277	SNP2200846	100901	SEEMA	BHOLASHANKAR	
181	SNP22003239	SNP2200847	100902	SEEMA	GOPAL	
182	SNP22000878	SNP2200848	100903	SEEMA YADAV	BABULAL	
183	SNP22023736	SNP2200849	100904	SHALINI KUMARI	LAKSHMAN SINGH	
184	SNP22003331	SNP2200850	100905	SHARDA	YAD RAM	
185	SNP22004958	SNP2200851	100906	SHIVNARAYAN JAISWAL	GYANCHAND JAISWAL	
186	SNP22006611	SNP2200852	100907	SHIWANI	JITENDRA	
187	SNP22001122	SNP2200853	100908	SHUBHRA MAITRY	CHETAN SINGH MAITRY	
188	SNP22000044	SNP2200854	100909	SHWETA SIDAR	TULESHWAR SIDAR	
189	SNP22004458	SNP2200855	100910	SHYAM KUMARI	NAND RAM	
190	SNP22006923	SNP2200856	100911	SIMRAN	JAGDISH PRASAD	
191	SNP22008673	SNP2200857	100912	SULOCHANA	RAMANAND	
192	SNP22001703	SNP2200858	100913	SUMAN	VISHNU KUMAR	

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193	SNP22005281	SNP2200859	100914	SUMIT KUMAR BANJARE	SADHRAM BANJARE	
194	SNP22021381	SNP2200860	100915	SUNIL KUMAR	MANI SINGH SINGH	
195	SNP22014929	SNP2200861	100916	SUNIL TANDAN	KOMAL	
196	SNP22001161	SNP2200862	100917	SUNITI	YAD RAM	
197	SNP22016428	SNP2200865	100918	SURAJ	BALI RAM	
198	SNP22012443	SNP2200866	100919	TARANI	MANOJ KUMAR	
199	SNP22024402	SNP2200867	100920	TARUN KUMAR	INDAL RAM	
200	SNP22010200	SNP2200868	100921	TUSHAR BAGHEL	HEERALAL	

201	SNP22009815	SNP2200869	100922	UMESH KUMAR	MANOJ KUMAR	
202	SNP22001258	SNP2200870	100923	UMESH KUMAR KURREY	RAJENDRA KUMAR	
203	SNP22006166	SNP2200871	100924	UTTARA	DHANAU RAM	
204	SNP22001500	SNP2200872	100925	VANDANA	CHHEDI LAL	
205	SNP22012724	SNP2200874	100926	VIDYA	RATAN SINGH	
206	SNP22011164	SNP2200875	100927	VIJAY KUMAR	SAMARU RAM	
207	SNP22015212	SNP2200876	100928	VIJENDRA KUMAR SIDAR	PUT LAL	
208	SNP22004335	SNP2200877	100929	VISHAL	MADHUSUDAN	
209	SNP22009182	SNP2200878	100930	VISHAL MAHESHWARI	AJAY MAHESHWARI	
210	SNP22016039	SNP2200879	100931	VIVEKANAND	PREM LAL	
211	SNP22000652	SNP2200880	100932	YOGITA PATEL	AMAR KUMAR PATEL	
212	SNP22008728	SNP2200881	100933	YOGITA SINGH	MAHESH BAGHEL	
213	SNP22009970	SNP2200882	100934	YUVRAJ	TIRATH RAM	

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