

| GANPAT UNIVERSITY | | | | | | | | | |
|--|--|----|-----------------|----|-------------------------------------|-----------|-----|-----------|-----|
| FACULTY OF COMPUTER APPLICATIONS | | | | | | | | | |
| Programme | B.Sc.(CA & IT) | | | | Branch/Spec. | | | | |
| Semester | II | | | | Version | 1.0.0.0 | | | |
| Effective from Academic Year | | | 2014-15 | | Effective for the batch Admitted in | | | June 2014 | |
| Subject code | U12A1IP2 | | Subject Name | | INTRODUCTION TO PROGRAMMING-II | | | | |
| Teaching scheme | | | | | Examination scheme (Marks) | | | | |
| (Per week) | Lecture(DT) | | Practical(Lab.) | | Total | CE | SEE | Total | |
| | L | TU | P | TW | | | | | |
| Credit | 3 | | 2 | - | 5 | Theory | 40 | 60 | 100 |
| Hours | 3 | | 4 | - | 7 | Practical | 20 | 30 | 50 |
| Pre-requisites: | | | | | | | | | |
| Fundamental knowledge of variables, data types, operators, decision making and looping statements. | | | | | | | | | |
| Theory syllabus | | | | | | | | | |
| Unit | Content | | | | | | | | Hrs |
| 1 | <p>Array and Strings: Introduction to Array, Concept of Dimensions in arrays, Initialization values in an array, Overflow and Underflow, Concepts of Multidimensional Array.</p> <p>Introduction, Declaring and initializing string variables, Reading string from terminal, Writing string to screen, Arithmetic operations on characters, Putting string together, String Operations: String Copy, String Compare, String Concatenation and String Length, String Handling functions, Table of strings.</p> | | | | | | | | 9 |
| 2 | <p>User Defined Functions: Need for user-defined functions, the form of C function, return values and their types, calling a function, category of functions, no arguments and no return values, arguments with return values, handling of non-integer functions, nesting of functions, recursion, functions with arrays, the scope, visibility and lifetime of variables in functions.</p> | | | | | | | | 9 |
| 3 | <p>Structures & Unions: Structure definition, Assigning values into members, structure initialization, comparison of structures, arrays of structures, arrays within structures, structures within structures. Introduction of Union. Difference between Structure and Union.</p> | | | | | | | | 9 |
| 4 | <p>Pointers & File Management: Introduction, Understanding pointers, Accessing the address of variable, Declaring and initializing pointers, Accessing a variable through its pointer, Pointer expressions, Pointer increments and scale factor, Pointers and arrays, Pointers and character strings, Pointers and Functions, Pointers and structures.</p> <p>Introduction, Defining files and its Operations, Error handling during I/O operations, Random access files, Command line arguments.</p> | | | | | | | | 9 |
| 5 | <p>Dynamic Memory Allocation, Preprocessor and Debugging Introduction of Dynamic Memory Allocation, Dynamic Memory Allocation functions. Introduction of Preprocessor, Macro Substitution, File Inclusion, Compiler Control Directives, ANSI additions.</p> <p>Program design, Program coding, Common programming errors, Program testing and debugging, Program efficiency.</p> | | | | | | | | 9 |
| Practical content | | | | | | | | | |
| List of programs specify by subject teacher based on above mention topics. | | | | | | | | | |
| Text Books | | | | | | | | | |
| - | | | | | | | | | |
| Reference Books | | | | | | | | | |
| 1 | Programming in ANSI C by E Balagurusamy - TMH Publications | | | | | | | | |
| 2 | Programming in C by Pradip dey and Manash Ghosh - Oxford University Press Publication | | | | | | | | |

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|-------------------|---|
| 3 | Let us 'C' by Yashwant Kanetkar –BPB Publications |
| Note for Examiner | |
| | Q-1 must be common from any topics from syllabus. Q-2 and onwards must be from specific topics and internal choice or option can be given |
| Paper Structure | |
| | <p>Section: 1 Q-1 (Attempt any Five Out of Seven: each question must be 6marks) -- 30 Questions must be covered all possible section.</p> <p>Section: 2 Q-2 (Must be from topics: 1 and 2 (6+6)) Q-3 (Must be from topics: 3 and 4(6+6)) Q-4 (Must be from topic: 5(6))</p> |

Note:

Version 2.0.0.0 (First Digit= New syllabus/Revision in Full Syllabus, Second Digit=Revision in Teaching Scheme, Third Digit=Revision in Exam Scheme, Forth Digit= Content Revision)

L=Lecture, TU=Tutorial, P= Practical/Lab., TW= Term work, DT= Direct Teaching, Lab.= Laboratory work

CE= Continuous Evaluation, SEE= Semester End Examination

| GANPAT UNIVERSITY | | | | | | | | | |
|--|---|--------------|-----------------|---|-------------------------------------|--------------------------|----|------------|-------|
| FACULTY OF COMPUTER APPLICATION | | | | | | | | | |
| Programme | | B.Sc.(CA&IT) | | | Branch/Spec. | | | DCS | |
| Semester | | II | | | Version | | | 1.0.0.1 | |
| Effective from Academic Year | | 2018-2019 | | | Effective for the batch Admitted in | | | July -2018 | |
| Subject code | U12A2MA | | Subject Name | | | MULTIMEDIA AND ANIMATION | | | |
| Teaching scheme | | | | | Examination scheme (Marks) | | | | |
| (Per week) | Lecture(DT) | | Practical(Lab.) | | Total | | CE | SEE | TOTAL |
| | L | Tu | P | | | | | | |
| Credit | 3 | - | 2 | - | 5 | Theory | 40 | 60 | 100 |
| Hours | 3 | - | 4 | - | 7 | Practical | 20 | 30 | 50 |
| Pre-requisites: | | | | | | | | | |
| Knowledge of Paint, Open Office Impress | | | | | | | | | |
| Learning Outcome: | | | | | | | | | |
| To develop the sense, creativity & perspective in designing domain. | | | | | | | | | |
| Theory syllabus | | | | | | | | | |
| Unit | Contents | | | | | | | | Hrs. |
| 1 | Introduction to Image Editing | | | | | | | | (09) |
| | Working with Interface, Resolution and Image Size, Color Spaces and Color Modes, Brief Overview of Tools, Selection tools, Filling stroking tools, Blending options, Content Adjustment option, History option. | | | | | | | | |
| 2 | Advances with Image Editing | | | | | | | | (09) |
| | Manipulating Images (Transforming Images, Adjusting colors, Paintbrush), Text Manipulations, Working with Layers and Masks (Managing Layers, Manipulating Layers, Using Layer Masks), Implementing Blur and Distortion Filters, Working with Paths, Image Correction & repairing, Enhancing Images (Special effects). | | | | | | | | |
| 3 | Corel Draw | | | | | | | | |
| | Introducing corel draw, Features of corel draw, corel draw interface, Drawing Basic Shapes, Working with Object and Object Points, Editing Pictures(Raster Graphics), Page layouts, Applying effects, Import, export and publishing | | | | | | | | |
| 4 | Introduction to Animation | | | | | | | | (09) |
| | Animation Interface fundamental, Drawing, Applying Color, Working With text, Symbols, Library, Visual effects, | | | | | | | | |
| 5 | Creating Animation & Effect | | | | | | | | (09) |
| | Timeline Animation, Key Frame Animation, Tweened Animation, Onion Skin, Shape Morphing, Guide Layer, Motion Guide, Mask Layer, Banner Ads, motion preset, Sound and video, import and export, Publishing Settings. | | | | | | | | |
| Practical content | | | | | | | | | |
| List of programs specified by the subject teacher based on above mention topics. | | | | | | | | | |
| Text Books | | | | | | | | | |
| | 1. Photoshop CC in easy steps, Robert Shufflebotham, Publication year 2014. 2. Photoshop CC for Dummies, Bauer, Publisher: WILEY & SONS 3. CorelDRAW How: The Fundamental of CorelDRAW, Steven bright, August 2017 | | | | | | | | |
| Reference Books | | | | | | | | | |

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|--------------------------|--|
| | 1. Adobe Photoshop CC Bible, wiley, 2014 2. Macromedia Flash 8 Bible by Robert Reinhardt , Snow Dowd - Wiley Publications |
| Note for Examiner | |
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| Paper Structure | |
| | <p>Section :1 Q-1 (Attempt any Five Out of Seven: each question must be 6marks) -- 30 Questions must be covered all possible section.</p> <p>Section:2 Q-2 (Must be from topics: 1 and 2 (6+6)) Q-3 (Must be from topics: 3 and 4(6+6)) Q-4 (Must be from topic: 5(6))</p> |

Note:

Version 2.0.0.0 (First Digit= New syllabus/Revision in Full Syllabus, Second Digit=Revision in Teaching Scheme, Third Digit=Revision in Exam Scheme, Forth Digit= Content Revision)

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CE= Continuous Evaluation, SEE= Semester End Examination

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| FACULTY OF COMPUTER APPLICATION | | | | | | | | | |
| Programme | B.Sc.(CA&IT) | | | | Branch/Spec. | DCS | | | |
| Semester | II | | | | Version | 1.0.0.0 | | | |
| Effective from Academic Year | | | 2014-15 | | Effective for the batch Admitted in | | | June 2014 | |
| Subject code | U12A3FA | | Subject Name | | FINANCIAL ACCOUNTING | | | | |
| Teaching scheme | | | | | Examination scheme (Marks) | | | | |
| (Per week) | Lecture(DT) | | Practical(Lab.) | | Total | CE | SEE | Total | |
| | L | TU | P | TW | | | | | |
| Credit | 3 | - | 2 | - | 5 | Theory | 40 | 60 | 100 |
| Hours | 3 | - | 2 | - | 5 | Practical | 20 | 30 | 50 |
| Pre-requisites: | | | | | | | | | |
| Basic Knowledge of Accounting Information | | | | | | | | | |
| Theory syllabus | | | | | | | | | |
| Unit | Content | | | | | | | | Hrs. |
| 1 | Accounting: Definition, advantages, limitations, Methods of Accounting (Deshi Nama, Double Entry, Single Entry), Branches of Accounting – Financial Accounting – Cost Accounting –Management Accounting, users of Accounting information, Types of Accounts and Rules of Debit and Credit, Cash and Credit Transaction, Preparation of Journal, Ledger, Subsidiary books and Trial Balance, Rectification of Errors (Types of errors, rectification entry only) | | | | | | | | 12 |
| 2 | Final Accounts (Sole Proprietorship only): Preparation of Trading A/c, Profit & Loss A/c and Balance Sheet covering simple Adjustments | | | | | | | | 10 |
| 3 | Accounting Ratios: Meaning, Advantages and Limitations of Accounting ratios, Computation of following ratios only: Gross Profit Ratio, Debtors Ratio, Net Profit Ratio, Creditors Ratio, Stock Turnover Ratio, Return on Capital Employed, Operating Ratio, Earning Per Share, Current Ratio, Return on shareholders fund, Liquid Ratio, Return on Equity Shareholders fund | | | | | | | | 11 |
| 4 | Marginal Costing: Meaning, Advantages, Limitations, Break Even Point, Margin of Safety, Profit Volume Ratio, Application of Marginal Costing including simple problems including make or buy and product mix decisions | | | | | | | | 6 |
| 5 | Accounting Software: Introduction, Advantages of computerized accounting system, Features of Tally Accounting software Company : Company features, create, alter, delete Group and Ledger : Single and multiple Voucher Entry : Purchase, Sales, Receipt, Payment, Contra, Journal, Credit note, debit note Report : View and Print Financial Reports | | | | | | | | 6 |
| Practical Content | | | | | | | | | |
| List of programs on the above mentioned topics as per decided by subject faculty | | | | | | | | | |
| Text Books | | | | | | | | | |
| 1. | Financial Accounting and Management By T.J.Rana - B.S.Shah Prakashan | | | | | | | | |

| Reference Books | |
|-------------------|--|
| 1. | Advanced Accountancy By Rana T J -Sudhir |
| 2. | Tally Instance Reference, A. K. Nadhani BPB Publication |
| Note For Examiner | |
| | Q-1 must be common from any topics from syllabus. Q-2 and onwards must be from specific topics and internal choice or option can be given |
| Paper Structure | |
| | Q-1 (Attempt any Five Out of Seven : each question must be 6 marks) --- 30 marks Question must be covered all possible section. Q-2 (Must be From unit 1 and 2: (6+6 marks)) Q-3 (Must be From unit 3 and 4: (6+6 marks) Q-4 (Must be From unit 5 : (6 marks) |

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| FACULTY OF COMPUTER APPLICATION | | | | | | | | | |
| Programme | B.Sc.(CA&IT) | | | | Branch/Spec. | - | | | |
| Semester | II | | | | Version | 1.0.0.0 | | | |
| Effective from Academic Year | 2014-15 | | | | Effective for the batch Admitted in | June 2014 | | | |
| Subject code | U12A4COA | | Subject Name | | COMPUTER ORGANIZATION AND ARCHITECTURE | | | | |
| Teaching scheme | | | | | Examination scheme (Marks) | | | | |
| (Per week) | Lecture(DT) | | Practical(Lab.) | | Total | CE | SEE | Total | |
| | L | TU | P | TW | | | | | |
| Credit | 3 | - | - | - | 3 | Theory | 40 | 60 | 100 |
| Hours | 3 | - | - | - | 3 | Practical | - | - | - |
| Pre-requisites: | | | | | | | | | |
| Basic Understanding of Computer System | | | | | | | | | |
| Learning Outcome: | | | | | | | | | |
| The objective of this subject is to learn different types of number system and different types of codes. Students can also learn the architecture and operation of microprocessor and assembly language instructions. | | | | | | | | | |
| Theory syllabus | | | | | | | | | |
| Unit | Content | | | | | | | Hrs | |
| 1 | Data Representation and Number System: (15) Number System: Introduction to Decimal, Binary, Octal, Hexadecimal number systems, Conversation of number from one number system to another number System, Binary Arithmetic: Addition, Subtraction (Simple method, using 1's And 2's Complement method), Multiplication, Division (Simple method and using Register method) Representation of Number: Representation & Error detection and correction codes, Representation of Integers, floating point numbers | | | | | | | 15 | |
| 2 | Different types of codes: (8) Alphanumeric Code (only ASCII & EBCDIC), Excess-3 Code, Grey Code, Parity bit scheme, Checksum method, RICS (Reduced Instruction Set Computers), CISC (Complex Instruction Set Computers), RICS versus CISC, Parallel to Serial and Serial to Parallel conversion, Microcontroller (Application only) | | | | | | | 08 | |
| 3 | Parallel Execution and Flow Control: (8) Execution: Instruction Execution, Parallel Execution, Instruction Level (Pipelining, Multifunction) Processor Level (Array processor, Vector processor, Multiprocessor), Addressing Techniques: Immediate Addressing, Direct Addressing, Register Addressing, Indexed Addressing, Flow of Control: Sequential flow of control and Branches, Procedures, Subroutine, Traps | | | | | | | 08 | |
| 4 | Introduction of Microprocessor (8085): (7) Microprocessor as CPU, Bus Structure, 8085 Pin diagram, 8085 Block diagram, Flag Register, Programming Model, Instruction Format | | | | | | | 07 | |
| 5 | Computer Instructions: (7) Data transfer and I/O Instructions, Arithmetic Instruction, Logic Instruction, Branch Instructions and Assembly Programming Instruction | | | | | | | 07 | |
| Practical content | | | | | | | | | |
| ---- | | | | | | | | | |
| Text Books | | | | | | | | | |
| 1 | Fundamentals of computer by V.Rajaraman-PHI Publications. | | | | | | | | |
| Reference Books | | | | | | | | | |
| 1 | Digital Principles and Applications by Malvino and Leach –TMH Publications. | | | | | | | | |
| 2 | Digital Electronics by William H. Gothmann- PHI Publications | | | | | | | | |

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| 3 | Structured Computer Organization by TANENBAUM, A.S- PHI Publications |
| 4 | Computer Organization and Architecture by William Stallings |
| 5 | Microprocessor Architecture Programming and Application with 8085 by Ramesh S. Gaonkar – Wiley Eastern Limited. |
| Note for Examiner | |
| | Q-1 must be common from any topics from syllabus. Q-2 and onwards must be from specific topics and internal choice or option can be given |
| Paper Structure | |
| | <p>Section: 1 Q-1 (Attempt any Five Out of Seven: each question must be 6marks) -- 30 Questions must be covered all possible section.</p> <p>Section: 2 Q-2 (Must be from topics: 1 and 2 (6+6)) Q-3 (Must be from topics: 3 and 4(6+6)) Q-4 (Must be from topic: 5(6))</p> |

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| FACULTY OF COMPUTER APPLICATION | | | | | | | | | |
| Programme | B.Sc.(CA&IT) | | | | Branch/Spec. | DCS | | | |
| Semester | II | | | | Version | 2.0.0.0 | | | |
| Effective from Academic Year | | 2018-2019 | | | Effective for the batch Admitted in | | | June 2018 | |
| Subject code | U12A5CF | | Subject Name | | Computer Fundamentals | | | | |
| Teaching scheme | | | | | Examination scheme (Marks) | | | | |
| (Per week) | Lecture(DT) | | Practical(Lab.) | | Total | | CE | SEE | TOTAL |
| | L | Tu | | | | | | | |
| Credit | 3 | - | - | - | 3 | Theory | 40 | 60 | 100 |
| Hours | 3 | - | - | - | 3 | Practical | - | - | - |
| Pre-requisites: | | | | | | | | | |
| Basic knowledge of software and hardware | | | | | | | | | |
| Learning Outcome: | | | | | | | | | |
| Student should able to understand how computer works and various types of data storage | | | | | | | | | |
| Theory syllabus | | | | | | | | | |
| Unit | Contents | | | | | | | | Hrs. |
| 1 | Introduction and Installation of Operating System(8) | | | | | | | | (8) |
| | Introduction of operating system, functionality of operating system and key features of various operating systems. Hardware & software requirements for operating system installation, steps to install various operating systems, Installation of OS through ghost image Introduction of Linux, Computer Booting Process, | | | | | | | | |
| 2 | Operating System and Hardware(8) | | | | | | | | (09) |
| | Hardware Control by Operating system, Hardware and Software Interaction, Hardware Interruption and CPU reaction, Working of Plug and Play Devices, Working of Operating System Registry | | | | | | | | |
| 3 | Microchip and Transistor(10) | | | | | | | | (10) |
| | Overview of Microchip and Transistor, Writing and Reading Data to/from RAM, Overview of Microprocessor: Working of Registers, Addition in Computer, Moving Data, Manipulating Data, Working of Hyper threading and Multicore Processor, MMX and SIMD, Clock Speed and Over clocking, Cooling of Microprocessor | | | | | | | | |
| 4 | Working of Software and Programming Language | | | | | | | | (9) |
| | Overview of Software: Software of the Second Millennium, Killer Software, Power to the Software, Operating Systems and Other Software, Overview of Programming language: How Software Interpreters Work, Compiler Creates Software, Software Construction | | | | | | | | |
| 5 | Data Storage in Computer | | | | | | | | (09) |
| | Overview of data storage: NAS, DAS, SAN , Saving a File to Disk, Retrieves a File from a Disk, mirrored drive array protects files , File Compression Makes Files Smaller, disk defragmentation works | | | | | | | | |
| Text Books | | | | | | | | | |
| 1. | How Computers work, by Ron White, illustrated by Tim Downs, Eighth edition | | | | | | | | |
| Note for Examiner | | | | | | | | | |
| | Q-1 must be common from any topics from syllabus. Q-2 and onwards must be from specific topics and internal choice or option can be given | | | | | | | | |
| Paper Structure | | | | | | | | | |
| | Section: 1 Q-1 (Attempt any Five Out of Seven: each question must be 6marks) -- 30 Questions must be covered all possible section. Section: 2 | | | | | | | | |

| | |
|--|---|
| | Q-2 (Must be from topics: 1 and 2 (6+6)) Q-3 (Must be from topics: 3 and 4(6+6)) Q-4 (Must be from topic: 5(6)) |
|--|---|

Note:

Version 2.0.0.0 (First Digit= New syllabus/Revision in Full Syllabus, Second Digit=Revision in Teaching Scheme, Third Digit=Revision in Exam Scheme, Fourth Digit= Content Revision)

L=Lecture, TU=Tutorial, P= Practical/Lab., TW= Term work, DT= Direct Teaching, Lab.= Laboratory work

CE= Continuous Evaluation, SEE= Semester End Examination

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FACULTY OF COMPUTER APPLICATION

| | | | | | | | | |
|------------------------------|-------------|-------------------------------------|--|----|-----|--------------------|-----------|------------|
| Programme | B.sc(CA&IT) | Branch/Spec. | Computer Application | | | | | |
| Semester | II | Version | 1.0.0.0 | | | | | |
| Effective from Academic Year | 2018-19 | Effective for the batch Admitted in | July 2018 | | | | | |
| Subject code | U12B6CS2 | Subject Name | LANGUAGE AND COMMUNICATION SKILLS – II | | | | | |
| Teaching scheme | | | Examination scheme (Marks) | | | | | |
| (Per week) | Lecture(DT) | Practical(Lab.) | Total | CE | SEE | Total | | |
| | L | TU | P | TW | | | | |
| Credit | 03 | 0 | 0 | 0 | 03 | Theory 40 | 60 | 100 |
| Hours | 03 | 0 | 0 | 0 | 03 | Practical 0 | 0 | 0 |

Pre-requisites:

Familiarity with basics of English language, strong determination and will-power for skill-set enhancement.

Learning Outcomes:

At the end of the course, the students shall acquire satisfactory competency in the fundamental communication skills so as to be able to:

- listen, understand and respond effectively
- read, comprehend and apply the acquired knowledge/information in various practical situations
- speak efficiently under various conditions
- write various drafts in clear and concise manner
- gain greater proficiency in language without wading through dull and insipid.

Theory syllabus

| Unit | Content | Hrs |
|----------|--|-----------|
| 1 | Remedial English Grammar, Usage and Vocabulary: | |
| | Modals, Conditionals, Concord, Commonly Confused Pairs of words, One Word Substitutes, Synonyms and Antonyms, Word Formation: Prefixes, Roots and Suffixes (Derivational & Inflectional), Error Analysis (Correction of Errors in a given sentence - errors in the use of words - errors of Indianisms - use of slang - errors in punctuation) | 12 |
| 2 | Oral Communication in Context | |
| | Asking for and giving information, offering and responding to offers, requesting and responding to requests, congratulating people on their success, expressing sympathy, expressing condolences, apologizing and forgiving, giving instructions, seeking and giving permission, expressing opinions (likes and dislikes), agreeing and disagreeing. | 10 |
| 3 | Presentation Skills: | 6 |
| | Definition of presentation, Components of presentation, planning to prepare effective presentation, Steps for preparing effective presentation, Boredom Factors in presentation, Attention grabbers in presentation | |
| 4 | Skills for Career Building | |
| | Official Correspondence - Letters to higher authorities, Significance & types of advertisements, drafting advertisements - Classified and Display, Notice, Agenda & Minutes of Meeting, Memo writing, E-Mails, Press release | 12 |

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| 5 | Group Discussion: | 5 |
| | Definition and nature of group discussion, Pre-requisites for group discussion, Objectives of group discussion, Characteristics of group discussion, how to prepare for group discussion, Dos and don'ts in group discussion | |
| Text Books | | |
| 1 | Technical Communication - Principles and Practice by Meenaksi Raman & Sangeeta Sharma (Oxford University Press) | |
| Reference Books | | |
| 1 | Effective Technical Communication by M Ashraf Rizvi (TMH Publication) | |
| 2 | Cambridge IELTS 1-10, Cambridge University Press | |
| 3 | A Communicative Grammar of English by Geoffery Leech and Fan Svartvik (Pearson Longman) | |
| 4 | Online resources: You Tube - Daily Video Vocabulary, Vocab 24, TED Lectures, Inspirational speeches/addresses of success people, parliamentary speeches, interviews, various internet channels devoted to learning and improving communication in English | |
| Note for Examiner | | |
| | Q-1 must be common from any topics from syllabus. Q-2 and onwards must be from specific topics and internal choice or option can be given | |
| Section: 1 Q-1 (Attempt any Five Out of Seven: each question must be 6marks) -- 30 Questions must be covered all possible section. | | |
| Section: 2 Q-2 (Must be from topics: 1 and 2 (6+6)) Q-3 (Must be from topics: 3 and 4(6+6)) Q-4 (Must be from topic: 5(6)) | | |

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