



SIR C R REDDY COLLEGE FOR WOMEN
B.Com-ComputerApplicationsSyllabus(w.e.f:2020-21A.Y)

UGProgram(4YearsHonors)
CBCS-2020-21

B. Com
COMPUTER APPLICATIONS



Syllabus and Model Question Papers



SIR C R REDDY COLLEGE FOR WOMEN

B.Com-Computer Applications Syllabus (w.e.f:2020-21A.Y)

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1. Resolutions of the Board of Studies:

Meeting held on: 22/01/2021 Time: 10.00 Am

At: NTR Convention Centre, Adikavi Nannaya University Campus, Rajamahendravaram

Agenda: As per the directions and guidelines/modalities issued by the APSCHE for revising the curriculum framework and updating the syllabus as outcome based B. Com programme to be effect from 2020-21 academic year under CBCS for implementing in all affiliated colleges of AKNU

Members present:

Dr.N.Udaya Bhaskar	Chairman, Dept. of Commerce and Management Studies, Adikavi Nannaya University, Rajamahendravaram, East Godavari District
Dr.J.Sanath Kumar	Member, RRDS Govt Degree College, Bhimavaram, West Godavari District
Dr.Kopparthi Ammaji	Member, BGBS Women's College, Narsapur, West Godavari District
Dr.K.Ratna Manikyam	, Member, Dept. of Commerce, Govt. College (A), Rajahmundry
Dr.M.Ramesh	Member, Dept. of Commerce and Management, Adikavi Nannaya University, Rajamahendravaram, East Godavari District

Resolutions: The UG Board of Studies for B.Com (Computer Applications) is resolved the following implementation subject to approval.

1. Adoption of revised-common programme structure and updating course-wise syllabi as per the guidelines issued by APSCHE.
2. Adoption of regulations on scheme of examination and marks/grading system of the University UG programme.
3. Preparation of Model Question Courses in prescribed format.
4. Eligibility of student for joining the course.
5. List of Course-setters/Course evaluators with phone, email id in the prescribed format.



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DETAILSOFCOURSESTITLESANDCREDITS

Sem	Course No	CourseName	Course Type(T/P/L)	Hrs/Week	Credits	Max.Marks	Max.Marks
				Commerce :5	Commerce :4	Count/Internal/ Mid Assessment	Sem-End Exam
I	1A	Fundamentals of Accounting	T	5	4	25	75
	1B	Business Organization and Management	T	5	4	25	75
	1C	Information Technology	T+L	3+2	3+1	25	75
II	2A	Financial Accounting	T	5	4	25	75
	2B	Business Economics	T	5	4	25	75
	2C	E-Commerce and Web Designing	T+L	3+2	3+1	25	75
III	3A	Advanced Accounting	T	5	4	25	75
	3B	Business Statistics	T	5	4	25	75
	3C	Programming with C & C++	T+L	3+2	3+1	25	75
IV	4A	Corporate Accounting	T	5	4	25	75
	4B	Cost and Management Accounting	T	5	4	25	75
	4C	Income Tax	T	5	4	25	75
	4D	Business Laws	T	5	4	25	75
	4E	Auditing	T	5	4	25	75
	4F	Data Base Management System	T+L	3+2	3+1	25	75

Note:*CourseTypeCode:T-Theory,L-Lab,P:Problemsolving

- Proposed combinations subjects:** Accounting and Commerce.
- Student eligibility for joining in the course:** 10+2 (any discipline), Open Inter School and its equivalent.
- Faculty eligibility for teaching the course:** Passed Post Graduation Degree with relevant specialization and also having higher qualification like SET/NET/Ph. D.
- List of Proposed Skill enhancement courses with syllabus, if any.
- Any newly proposed Skill development/Life skill courses with draft syllabus and required resources.
- Required instruments/software/ computers for the course (Lab/Practical course-wise required i.e., for a batch of 15 students).



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- g) List of Suitable levels of positions eligible in the Govt/Pvt organizations . Suitable levels of positions for these graduates either in industry/govt organization like., technical assistants/ scientists/ school teachers., clearly define them, with reliable justification.

S.No.	Position	Company/Govt organization	Remarks	Additional skills required, if any
01	Accountant	Any Govt./Private Organization		
02	Supporting Staff	Any Govt./Private Organization		
03	Clerk	Banking Industry		
04	Entrepreneur	Own Business		

- h) List of Govt. organizations/Pvt companies for employment opportunities or internships or projects.

S.No	Position	Company/ Govt organization	Remarks	Additional skills required, if any
01	Service Industry	Junior Assistant/Senior Assistant/LDC/UDC/Clerk		
02	Manufacturing Industry	Accountant/Cashier/Clerk		
03	Hotel Industry	Accountant/Cashier		
04	Banking Sector	Cashier/Asst. Cader/Clerical		

- i) Any specific instruction to the teacher/Course setters/Exam-Chief Superintendent.

3. Program objectives, outcomes, co-curricular and assessment methods.

B.Com	Computer Applications
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1. Aim and objectives of B. Com program:

The B.Com program aims to make the students employable and self-employment oriented (Self employable). It aims to make the students learn the writing and interpretation of books of accounts, be conversant with the financial and economic environment and acquire the management skills required to manage the business.

2. Learning outcomes of B.Com:

- ❖ This program could provide Industries, Banking Sectors, Insurance Companies, Financing companies, Transport Agencies, Warehousing etc., well trained professionals to meet the requirements.
- ❖ After completing graduation, students can get skills regarding various aspects like Marketing Manager, Selling Manager, over all Administration abilities of the Company.
- ❖ Capability of the students to make decisions at personal & professional level will increase after completion of this course. Students can independently start up their own Business.
- ❖ Students can get thorough knowledge of finance and commerce.



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- ❖ The knowledge of different specializations in Accounting, costing, banking and finance with the practical exposure helps the students to stand in organization.
- 3. Recommended Skill enhancement courses: (Titles of the courses given below and details of the syllabus for 4 credits (i.e., 2 units for theory and Lab/Practical) for 5 hrs class-cum-lab work.
- 4. Recommended Co-curricular activities: (Co-curricular Activities should not promote copying from text book or from others' work and shall encourage self/independent and group learning)

A. Measurable:

1. Assignments on:
2. Student seminars (Individual presentation of Courses) on topics relating to:
3. Quiz Programmes on:
4. Individual Field Studies/projects:
5. Group discussion on:
6. Group/Team Projects on:

B Computer applications

1. Collection of news reports and maintaining a record of Course-cuttings relating to topics covered in syllabus .
 2. Group Discussion on: Subject related matters.
 3. Watching TV discussions and preparing summary points recording personal observations etc., under guidance from the Lecturers.
 4. Any similar activities with imaginative thinking.
5. Recommended Continuous Assessment methods:
- Some of the following suggested assessment methodologies could be adopted;
1. Theoral and written examinations (Scheduled and surprise tests).
 2. Closed-book and open-book tests.
 3. Coding exercises.
 4. Practical assignments and laboratory reports.
 5. Observation of practical skills.
 6. Individual and group project reports.
 7. Efficient delivery using seminar presentations.
 8. Vivavoce interviews.
 9. Computerized adaptive testing, literature surveys and evaluations.
 10. Peers and self-assessment, outputs for individual and collaborative work.



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4. Details of course-wise Syllabus:

DETAILS OF COURSEWISE SYLLABUS FOR THEORY & MODEL QUESTION COURSES



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B Com	Semester: I (ComputerApplications)	Credits:4
Course:1C	INFORMATIONTECHNOLOGY	Hrs/Wk: 5

Learning Outcomes:

At the end of the course, the students are expected to DEMONSTRATE the following cognitive abilities (thinking skill) and psychomotor skills.

A. Remembers and states in a systematic way (Knowledge).

1. Describe the fundamental hardware components that make up a computer's hardware and the role of each of these components.
2. Understand the difference between an operating system and an application program, and what each is used for in a computer.
3. Use technology ethically, safely, securely, and legally.
4. Use systems development, word-processing, spreadsheet, and presentation software to solve basic information systems problems.

B. Explains (Understanding).

1. Apply standard statistical inference procedures to draw conclusions from data.
2. Retrieve information and create reports from databases.
3. Interpret, produce, and present work-related documents and information effectively and accurately

C. Critically examines, using data and figures (Analysis and Evaluation**).

4. Analyse compression techniques and file format to determine effective ways of securing, managing, and transferring data.
5. Identify and analyse user needs and take them into account in the selection, creation, integration, evaluation, and administration of computing-based systems.
6. Analyse a complex computing problem and to apply principles of computing and other relevant disciplines to identify solutions.
7. Identify and analyse computer hardware, software

D. Working in 'Outside Syllabus Area' under a Co-curricular Activity (Creativity) Design, implement, and evaluate a computing-based solution to meet a given set of computing requirements in the context of the program's discipline.

E. Efficiently learn and use Microsoft Office applications.

UNIT I:

10Hrs

Introduction: Computer Definition - Characteristics and Limitations of Computer Hardware—Generations of Computer, Classification of Computers, Applications of Computer, Basic Components of PC, Computer Architecture - Primary and Secondary Memories- Input and Output Devices-Operating System- Function of Operating System- Types of Operating System- Languages and its Types.

UNIT II:

12Hrs

MS Word: Word Processing— Features-Advantages and Applications-Parts of Word Window-Toolbar-Creating, Saving, Closing, Opening and Editing of a Document-Moving and Copying a Text-Formatting of Text and Paragraph- Bullets and Numbering-Find and Replace - Insertion of objects-Headers and Footers- Page Formatting- Auto Correct- Spelling and Grammar- Mail Merge- Macros.

UNIT III:

12Hrs

MS Excel: Features—Spread Sheet-Workbook—Cell-Parts of a window-Saving, Closing, Opening of a Workbook – Editing – Advantages – Formulas- Types of Function- Templates – Macros – Sorting- Charts – Filtering – Consolidation – Grouping- Pivot Table.



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UNITIV: **12Hrs**

MS Power point: Introduction – Starting – Parts - **Creating of Tables- Create Presentation** – Templates- Auto Content Wizard-Slide Show-Editing of Presentation-Inserting Objects and charts.

UNITV: **14Hrs**

MS Access: Orientation to Microsoft Access - **Create a Simple Access Database - Working with Table Data - ModifyTable Data - Sort and Filter Records** - Querying a Database - Create Basic Queries - Sort and Filter Data in a Query - Perform Calculations in a Query - **Create Basic Access Forms - Work with Data on Access Forms - Create a Report - Add Controls to a Report - Format Reports.**

Noted:

Employability – Sky Blue

Skill – Pink

Entrepreneur - Green

ONLINERESOURCES:

<https://support.office.com/en-us/office-training-center>
<https://www.skillshare.com/browse/microsoft-office>
https://www.tutorialspoint.com/computer_fundamentals/index.htm
<https://www.javatpoint.com/computer-fundamentalstutorial>
<https://edu.gcfglobal.org/en/subjects/office/>
<https://www.microsoft.com/en-us/learning/training.aspx>

PRACTICALCOMPONENT:@2HOURS/WEEK/BATCH .

- MSwordcreationofdocumentslettersinvitationsetc,tables,mailmerge,animationsinword, formatting text.
- MSExcelperformingdifferentformulas,creatingcharts,macros.
- MSpowerpointslidecreation,creationofanimation.
- MSAccesscreationofdatabase,formsandreports

RECOMMENDED CO-CURRICULARACTIVITIES:

(Co-curricularactivitiesshallnotpromotecopyingfromtextbookorfromothersworkandshall encourage self/independent and group learning)

Measurable

1. Assignments(inwritinganddoingformsontheaspectsofsyllabuscontentandoutsidethesyllabus content. Shall be individual and challenging).
2. Studentseminars(ontopicsofthesyllabusandrelatedaspects(individualactivity).
3. Quiz(ontopicsthatthecontentcanbecompiledbysmalleraspectsanddata(Individualsor groups as teams)).
4. Fieldstudies(individualobservationsandrecordingsaspersyllabuscontentandrelatedareas (Individual or team activity).
5. Studyprojects(byverysmallgroupsofstudentsonselectedlocalreal-timeproblemspertainingto syllabusorrelatedareas.Theindividualparticipationandcontributionofstudentsshallbeensured (team activity)).

General.

1. GroupDiscussion.
2. VisittoSoftwareTechnologyparks/industries



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RECOMMENDED CONTINUOUS ASSESSMENT METHODS:

Some of the following suggested assessment methodologies could be adopted:

1. Theoral and written examinations (Scheduled and surprise tests).
2. Closed-book and open-book tests.
3. Coding exercises.
4. Practical assignments and laboratory reports.
5. Observation of practical skills.
6. Individual and group project reports.
7. Efficient delivery using seminar presentations.
8. Vivavoce interviews.
9. Computerized adaptive testing, literature surveys and evaluations.
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MODEL QUESTION COURSE – THEORY

B.Com.DEGREE EXAMINATIONS

Semester: I (Computer Applications)

Course(1C): Information Technology

Time: 3 Hours.

Max Marks: 75

Section-A

Answer any **FIVE** of the following questions.

5X5=25M

1. What are the Applications of Computer?
2. Write about the parts of Word-Window.
3. What are the features of MS-Excel?
4. What are the features of MS-Power Point?
5. What are the basic queries in MS-Access?
6. What are the Basic Components of PC?
7. Write Types of Functions in MS-Excel.
8. What are the types of effects in Custom Animation?

Section-B

Answer **FIVE** questions.

5X10=50M

9. a) Explain about Computer Architecture.
(OR)
b) Explain about functions of Operating System and types of Operating Systems.
10. a) What are the Features, Advantages and Applications MS-Word
(OR)
b) Write the process how to prepare Progress Report of Students using Mail Merge.
11. a) How to Prepare Students Results Table with Total, Percentage and Pass/Fail using Formulas.
(OR)
b) Write the process for Sorting, Filtering, Consolidation and Grouping in MS-Excel.
12. a) Write the process of how to prepare a powerpoint presentation and slideshow.
(OR)
b) Write about different types of animations in MS-Power Point.
13. a) Write the process how to Create a Report, Add Controls to a Report and Format Reports in MS Access.
(OR)
b) Write the process how to create a Simple Access Database, Working with Table Data and Modify Table Data.



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B Com	Semester: II (Computer Applications)	Credits:4
Course:2C	E-COMMERCE AND WEB DESIGNING	Hrs/Wk: 5

Learning Outcomes:

At the end of the course, the students are expected to DEMONSTRATE the following cognitive abilities (thinking skill) and psychomotor skills.

A. Remembers and states in a systematic way (Knowledge).

1. Understand the foundations and importance of E-commerce.
2. Define Internet trading relationships including Business to Consumer, Business-to-Business, Intra-organizational.
3. Describe the infrastructure for E-commerce.
4. Discuss legal issues and privacy in E-Commerce.
5. Understand the principles of creating an effective webpage, including an in-depth consideration of information architecture

B. Explains (Understanding).

6. Recognize and discuss global E-commerce issues.
7. Learn the language of the web: HTML and CSS.

C. Critically examines, using data and figures (Analysis and Evaluation).

8. Analyze the impact of E-commerce on business models and strategy.
9. Assess electronic payments systems.
10. Exploring a web development framework as an implementation example and create dynamically generated web site complete with user accounts, page level security, modular design using css

D. Working in 'Outside Syllabus Area' under a Co-curricular Activity (Creativity) Use the Systems

Design Approach to implement websites with the following steps:

- Define purpose of the site and subsections.
- Identify the audience.
- Design and/or collect site content.
- Design the website theme and navigational structure.
- Design & develop web pages including: CSS Style Rules, Typography, Hyperlinks, Lists, Tables, Frames, Forms, Images, Behaviours, CSS Layouts

E. Build a site based on the design decisions and progressively incorporate tools and techniques covered.

UNIT I:

12Hrs

Introduction: Meaning, Nature, Concepts, Advantages, Disadvantages and reasons for Transacting Online, **Types of E-Commerce**, e-commerce Business Models (Introduction, Key Elements of a Business Model And Categorizing Major E-Commerce Business Models), Forces Behind e-commerce.

Technology used in E-commerce: The dynamics of World Wide Web and Internet (Meaning, Evolution And Features); **Designing, Building and Launching e-commerce website** (A systematic approach involving decisions regarding selection of hardware, software, outsourcing Vs. in-house development of a website).

UNIT II:

10Hrs

E-payment System: **Models and methods of e-payments (Debit Card, Credit Card, Smart Cards, e-money), Digital Signatures (Procedure, Working And Legal Position), Payment Gateways, Online Banking (Meaning, Concepts, Importance, Electronic Fund Transfer, Automated Clearing House, Automated Ledger Posting), Risks Involved in e-payments.**



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UNIT III: 12Hrs

On-line Business Transactions: Meaning, Purpose, Advantages and Disadvantages of Transacting Online, E- Commerce Applications in Various Industries Like {Banking, Insurance, Payment of Utility Bills, Online Marketing, E-Tailing (Popularity, Benefits, Problems and Features), Online Services (Financial, Travel and Career), Auctions, Online Portal, Online Learning, Publishing and Entertainment} Online Shopping (Amazon, Snap Deal, Alibaba, Flipkart, etc.).

UNIT IV: 14Hrs

Website designing: Designing a home page, HTML document, Anchor tag Hyperlinks, Head and body section, Header Section, Title, Prologue, Links, Colorful Pages, Comment, Body Section, Heading Horizontal Ruler, Paragraph, Tabs, Images And Pictures, Lists and Their Types, Nested Lists, Table Handling. **Frames:** Frameset Definition, Frame Definition, Nested Framesets, Forms and Form Elements. **DHTML and Style Sheets:** Defining Styles, elements of Styles, linking a style sheet to a HTML Document, Inline Styles, External Style Sheets, Internal Style Sheets & Multiple Style Sheets.

UNIT V: 12Hrs

Security and Encryption: Need and Concepts, E-Commerce Security Environment: (Dimension, Definition and Scope Of E-Security), Security Threats in The E-Commerce Environment (Security Intrusions And Breaches, Attacking Methods Like Hacking, Sniffing, Cyber- Vandalism Etc.), Technology Solutions (Encryption, Security Channels Of Communication, Protecting Networks And Protecting Servers And Clients).

Noted:

Employability – Sky Blue
Skill – Pink
Entrepreneur – Green

Learning Resources (Course 2C: E-commerce & Web Designing) References:

1. E-commerce and E-business Himalaya publishers.
2. E-Commerce by Kenneth CLaudon, PEARSON INDIA.
3. Web Design: Introductory with MindTap Jennifer TCampbell, Cengage India.
4. HTML & WEB DESIGN: TIPS & TECHNIQUES JAMSA, KRIS, McGraw Hill.
5. Fundamentals Of Web Development by Randy Connolly, Ricardo Hoar, Pearson.
6. HTML & CSS: COMPLETE REFERENCE POWELL, THOMAS, McGraw Hill

Online Resources:

<http://www.kartrocket.com> <http://www.e-commerceceo.com> <http://www.fastspring.com>
<https://teamtreehouse.com/tracks/web-design>

PRACTICAL COMPONENT: @ 2 HOURS / WEEK / BATCH

1. Creation of simple webpage using formatting tags
2. Creation of lists and tables with attributes
3. Creation of hyperlinks and including images
4. Creation of forms
5. Creation of framesets
6. Cascading style sheets – inline, internal and external



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RECOMMENDED CO-CURRICULAR ACTIVITIES:

(Co-curricular activities shall not promote copying from textbook or from others work and shall encourage self/independent and group learning)

Measurable.

1. Assignments (in writing and doing forms on the aspects of syllabus content and outside the syllabus content. Shall be individual and challenging).
2. Student seminars (on topics of the syllabus and related aspects (individual activity)).
3. Quiz (on topics where the content can be compiled by smaller aspects and data (Individuals or groups as teams)).
4. Field studies (individual observations and recordings as per syllabus content and related areas (Individual or team activity)).
5. Study projects (by very small groups of students on selected local real-time problems pertaining to syllabus or related areas. The individual participation and contribution of students shall be ensured (team activity)).

General.

1. Group Discussion.
2. Visit to Software Technology parks/industries.

RECOMMENDED CONTINUOUS ASSESSMENT METHODS:

Some of the following suggested assessment methodologies could be adopted;

1. Theoretical and written examinations (Scheduled and surprise tests),
2. Closed-book and open-book tests,
3. Coding exercises,
4. Practical assignments and laboratory reports,
5. Observation of practical skills,
6. Individual and group project reports,
7. Efficient delivery using seminar presentations,
8. Vivavoce interviews.
9. Computerized adaptive testing, literature surveys and evaluations,
10. Peers and self-assessment, outputs for individual and collaborative work.



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MODELQUESTIONCOURSE–THEORY
B.Com. DEGREE EXAMINATIONS
Semester:II(ComputerApplications)
Course(2C):E-CommerceAndWebDesigning

Time:3 Hours.

MaxMarks:75

Section-A

Answerany**FIVE**ofthefollowingquestions.

5X5=25M

1. WriteaboutTypesofE-Commerce.
2. WhataretheRisksInvolvedine-payments?
3. WhataretheAdvantagesandDisadvantagesofTransactingOnline?
4. WriteexamplesforListsandtheir types.
5. WritetheDefinitionandScopeofE-Security.
6. WhatarethefeaturesofWWWandInternet?
7. WritehowtolinkastylesheettoaHTMLDocument.
8. Whatarethemethodsofe-Payments?

Section-B

Answer**FIVE**questions.

5X10=50M

9. a) Writeaboute-commerceBusinessModels.
(OR)
b) ExplainaboutDesigning,BuildingandLaunchinge-commerce website.
10. a) ExplainaboutDigitalSignatures.
(OR)
b) ExplainaboutOnlineBanking.
11. a) WriteaboutE-Tailing(Popularity,Benefits,Problemsand Features).
(OR)
b) WriteaboutOnlineLearning,PublishingandEntertainment.
12. a) WritethecodetodesignawebpagewithFormandform elements
(OR)
b) WriteaboutInline,External,InternalandMultipleStyleSheets.
13. a) WriteaboutSecurityThreatsintheE-CommerceEnvironment.
(OR)
b) WriteaboutTechnologySolutions for Security.



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B Com	Semester:III(Computer Applications)	Credits:4
Course:3C	PROGRAMMING WITH C & C++	Hrs/Wk: 5

Learning Outcomes:

At the end of the course, the student is expected to DEMONSTRATE the following cognitive abilities (thinking skill) and psychomotor skills.

A. Remembers and states in a systematic way (Knowledge).

1. Develop programming skills.
2. Declaration of variables and constants use of operators and expressions.
3. Learn the syntax and semantics of programming language.
4. Be familiar with programming environment of C and C++.
5. Ability to work with textual information (characters and strings) & arrays

B. Explains (Understanding).

6. Understanding a functional hierarchical code organization.
7. Understanding a concept of object thinking within the framework of functional model.
8. Write program on a computer, edit, compile, debug, correct, recompile and run it

C. Critically examines, using data and figures (Analysis and Evaluation).

9. Choose the right data representation formats based on the requirements of the problem.
10. Analyze how C++ improves C with object-oriented features.
11. Evaluate comparisons and limitations of the various programming constructs and choose correct one for the task in hand.

D. Working in 'Outside Syllabus Area' under a Co-curricular Activity (Creativity) Planning of structure and content, writing, updating and modifying computer programs for user solutions

E. Exploring C programming and Design C++ classes for code reuse (Practical skills***).

UNIT I:

10Hrs

Introduction and Control Structures: History of 'C' - Structure of C program – C character set, Tokens, Constants, Variables, Keywords, Identifiers – C datatypes – C operators – Standard I/O in C - Applying if and Switch Statements.

UNIT II:

12Hrs

Loops and Arrays: Use of While, Do While and For Loops - Use of Break and Continue Statements - Array Notation and Representation - Manipulating Array Elements - Using Multi Dimensional Arrays.

UNIT III:

12Hrs

Strings and Functions: Declaration and Initialization of String Variables - String Handling Functions - Defining Functions - Function Call - Call By Value, Call By Reference – Recursion.

UNIT IV:

12Hrs

Principles of Object Oriented Programming: Procedure Oriented Programming, Object Oriented Programming, Basic concepts of Object Oriented Programming, Applications of C++, A simple C++ Program, An example with Class, Structure of C++ Program, Creating source file, Compiling and Linking.

UNIT V:

14Hrs

Classes and Objects: Tokens, Keywords, Declaration of Variables, Dynamic initialization of variables, Specifying a Class, Defining member functions, Function overloading, Operator overloading, Constructors and Destructors, Inheritance and types of Inheritance

Noted:

Employability – Sky Blue

Skill – Pink

Entrepreneur - Green



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REFERENCES:

1. Mastering C by KR Venugopal and Sudeep R Prasad, McGraw Hill.
2. Expert C Programming: Deep Secrets Kindle Edition Peter van der Linden.
3. Let Us C by Yashavant Kanetkar.
4. The C++ Programming Language by Bjarne Stroustrup.
5. C++ Primer by Stanley B. Lippman, José Lajoie, Barbara E. Moo.

Online Resources:

- <https://www.tutorialspoint.com/cprogramming/index.html>
- <https://www.learn-c.org/>
- <https://www.programiz.com/c-programming>
- <https://www.w3schools.in/c-tutorial/>
- <https://www.cprogramming.com/tutorial/c-tutorial.html>
- <https://www.tutorialspoint.com/cplusplus/index.html>
- <https://www.programiz.com/cpp-programming>
- <http://www.cplusplus.com/doc/tutorial/>
- <https://www.learn-cpp.org/>
- <https://www.javatpoint.com/cpp-tutorial>

PRACTICAL COMPONENT: @2 HOURS/WEEK/BATCH.

1. Write C programs for
 - a. Fibonacci Series
 - b. Prime number
 - c. Palindrome number
 - d. Armstrong number.
2. 'C' program for multiplication of two matrices
3. 'C' program to implement string functions
4. 'C' program to swap numbers
5. 'C' program to calculate factorial using recursion.
6. 'C++' program to perform addition of two complex numbers using constructor
7. Write a program to find the largest of two given numbers in two different classes using friend function.
8. Program to add two matrices using dynamic constructor.
9. Implement a class string containing the following functions
 - a. Overload + operator to carry out the concatenation of strings.
 - b. Overload == operator to carry out the comparison of strings.
10. Program to implement inheritance.

RECOMMENDED CO-CURRICULAR ACTIVITIES:

(Co-curricular activities shall not promote copying from textbook or from others work and shall encourage self/independent and group learning)

Measurable.

1. Assignments (in writing and doing forms on the aspects of syllabus content and outside the syllabus content. Shall be individual and challenging).
2. Student seminars (on topics of the syllabus and related aspects (individual activity)).
3. Quiz (on topics where the content can be compiled by smaller aspects and data (Individuals or groups as teams)).
4. Field studies (individual observations and recordings as per syllabus content and related areas (Individual or team activity)).
5. Study projects (by very small groups of students on selected local real-time problems pertaining to syllabus or related areas. The individual participation and contribution of students shall be ensured (team activity)).



SIR C R REDDY COLLEGE FOR WOMEN

B.Com-ComputerApplicationsSyllabus(w.e.f:2020-21A.Y)

General.

1. Group Discussion.
2. VisittoSoftwareTechnologyparks / industries.

RECOMMENDED CONTINUOUS ASSESSMENT METHODS:

Some of the following suggested assessment methodologies could be adopted:

1. Theoral and written examinations (Scheduled and surprise tests),
2. Closed-book and open-book tests,
3. Coding exercises,
4. Practical assignments and laboratory reports,
5. Observation of practical skills,
6. Individual and group project reports,
7. Efficient delivery using seminar presentations,
8. Vivavoce interviews.
9. Computerized adaptive testing, literature surveys and evaluations,
10. Peers and self-assessment, outputs for individual and collaborative work



SIR C R REDDY COLLEGE FOR WOMEN

B.Com-Computer Applications Syllabus (w.e.f:2020-21A.Y)

MODEL QUESTION COURSE – THEORY B.Com. DEGREE EXAMINATIONS Semester: III (Computer Applications) Course (3C): Programming With C & C++

Time: 3 Hours.

Max Marks: 75

Section-A

Answer any **FIVE** of the following questions.

5X5=25M

1. Write the Structure of C program
2. Write about Break and Continue Statement.
3. What is recursion? Write an example program for recursion.
4. Write the Structure of C++ Program.
5. What is Inheritance? What are the types of Inheritance?
6. Write the Tokens and Constants in C Language.
7. Write Declaration and Initialization of String.
8. Write about operator overloading.

Section-B

Answer **FIVE** questions.

5X10=50M

9. a) Write about Data Types and Operators in C Language.
(OR)
b) Write about If and Switch Statement with examples.
10. a) Write about types of Loops in C Language with Flow Charts and example syntax.
(OR)
b) Write about Array Declaration and Initialization and write a C program for Addition of two arrays.
11. a) Write about different types of String handling functions
(OR)
b) Explain Call by Value and Call by Reference with examples.
12. a) Explain about basic concepts of OOP.
(OR)
b) Write about Creating source file, Compiling and Linking.
13. a) Explain about types of Constructors.
(OR)
b) Explain about different types of Inheritance.



SIR C R REDDY COLLEGE FOR WOMEN

B.Com-ComputerApplicationsSyllabus(w.e.f:2020-21A.Y)

B Com	Semester:IV(ComputerApplications)	Credits:4
Course:4F	DATABASEMANAGEMENTSYSTEMS	Hrs/Wk: 5

LearningOutcomesforDatabaseManagement System.

Attheendofthecourse,thestudentsisexpectedtoDEMONSTRATEthefollowingcognitive abilities (thinking skill) and psychomotor skills.

A. Remembersandstatesinasystematicway(Knowledge).

1. Understandtheroleofadatabasemanagementsysteminanorganization.
2. Understand basic database concepts, including the structure and operation of the relationaldata model.
3. Understandandsuccessfullyapplylogicaldatabasesdesignprinciples,includingER diagrams and database normalization.
4. Understand FunctionalDependencyandFunctionalDecomposition

B. Explains (Understanding).

5. Todesignandbuildasimpledatabasesystemanddemonstratecompetencewiththefundamental tasks involved with modeling, designing, and implementing a DBMS.
6. PerformPL/SQLprogrammingusingconceptofCursorManagement,ErrorHandling,Packages.

C. Criticallyexamines,usingdataand figures(AnalysisandEvaluation).

7. ApplyvariousNormalizationtechniques.
8. Model an application's data requirements usingconceptualmodelingtools like ER diagrams and design database schemas based on the conceptual model

D. Working in'OutsideSyllabus.Area'underaCo-curricularActivity(Creativity)Designand implement a small database project

E. Construct simple and moderately advanced database queries using Structured Query Language (SQL)(Practical skills)

UNIT I:

10Hrs

Overview of Database Management System: Introduction, Data and Information, Database, Database Management System, Objectives of DBMS, Evolution of Database Management System, Classification of Database Management System.

UNITII:

12Hrs

File-Based System: File Based System. Drawbacks of File-Based System, DBMS Approach, Advantage of DBMS, Data Models, Components of Database System, Database Architecture,DBMS Vendors and their products.

UNIT III:

14Hrs

Entity-Relationship Model: Introduction, The Building Blocks of an Entity-Relationship, Classification of Entity Set, Attribute Classification, Relationship Degree, RelationshipClassification, Generalization and Specialization, Aggregation and Composition, CODD's Rules, Relational Data Model, Concept of Relational Integrity.

UNIT IV:

12Hrs

Structured Query Language: Introduction, History of SQL Standards, Commands in SQL, Data typesinSQL,DataDefinitionLanguage(DDL),SelectionOperationProjectionOperation,Aggregate Functions, Data Manipulation Language, Table Modification, Table Truncation, Imposition of Constraints, Set Operations.



SIR C R REDDY COLLEGE FOR WOMEN

B.Com-Computer Applications Syllabus (w.e.f:2020-21A.Y)

UNIT V:

12Hrs

PL/SQL: Introduction, Structure of PL/SQL, PL/SQL Language Elements, Data Types, Control Structure, Steps to Create a PL/SQL Program, Iterative Control Cursors, Steps to Create a Cursor, Procedure, Functions, Packages, Exceptions Handling, Database Triggers, Types of triggers.

Noted:

Employability – Sky Blue

Skill – Pink

Entrepreneur - Green

LEARNING RESOURCES:

REFERENCES:

1. Paneerselvam: Database Management System, PHI.
2. David Kuklinski, Osborne, Data Management System McGraw Hill Publication.
3. Shgirley Neal And Kenneth L C Trunik Database Management System in Business - PHI.
4. Godeon C. EVEREST, Database Management - McGraw Hill Book Company.
5. MARTIN, Database Management - Prentice Hall of India, New Delhi.
6. Bipin C. Desai, 'An Introduction to Database System', Galgotia Publications.
7. Korth, Database Management System.
8. Navathe, Database Management System.
9. S. Sumathi, S. Esakkirajan, Fundamentals of Relational Database Management System

Online resources:

- [http:// www.onlinegdb.com/](http://www.onlinegdb.com/)
- <http://www.tutorialspoint.com/http://learnsql.com>
- <https://www.codecademy.com/learn/learn-sql/>
- <https://www.w3schools.com/sql/default.asp>

PRACTICAL COMPONENT: @2 HOURS/WEEK/BATCH.

1. Create tables department and employee with required constraints.
2. Initially only the few columns (essential) are to be added. Add the remaining columns separately by using appropriate SQL command.
3. Basic column should not be null.
4. Add constraint that basic should not be less than 5000.
5. Calculate HRA, DA, Gross and net by using PL/SQL program.
6. The percentage of HRA and DA are to be stored separately.
7. When the DA becomes more than 100%, a message has to be generated and with user permission has to be merged with basic.

RECOMMENDED CO-CURRICULAR ACTIVITIES:

(Co-curricular activities shall not promote copying from textbook or from others work and shall encourage self/independent and group learning)

Measurable.

1. Assignments (in writing and doing forms on the aspects of syllabus content and outside the syllabus content. Shall be individual and challenging).
2. Student seminars (on topics of the syllabus and related aspects (individual activity)).



SIR C R REDDY COLLEGE FOR WOMEN

B.Com-Computer Applications Syllabus (w.e.f:2020-21A.Y)

3. Quiz (on topics where the content can be compiled by smaller aspects and data (Individuals or groups as teams).
4. Field studies (individual observations and recordings as per syllabus content and related areas (Individual or team activity).
5. Study projects (by very small groups of students on selected local real-time problems pertaining to syllabus or related areas. The individual participation and contribution of students shall be ensured (team activity).

General

1. Group Discussion
2. Visit to Software Technology parks / industries

RECOMMENDED CONTINUOUS ASSESSMENT METHODS:

Some of the following suggested assessment methodologies could be adopted:

1. Theoretical and written examinations (Scheduled and surprise tests),
2. Closed-book and open-book tests,
3. Coding exercises,
4. Practical assignments and laboratory reports,
5. Observation of practical skills,
6. Individual and group project reports,
7. Efficient delivery using seminar presentations,
8. Vivavoce interviews.
9. Computerized adaptive testing, literature surveys and evaluations,
10. Peer and self-assessment, outputs for individual and collaborative work



SIR C R REDDY COLLEGE FOR WOMEN

B.Com-Computer Applications Syllabus (w.e.f:2020-21A.Y)

MODEL QUESTION COURSE – THEORY
B.Com. DEGREE EXAMINATIONS
Semester: IV (Computer Applications)
Course (4F): Data Base Management Systems

Time: 3 Hours.

Max Marks: 75

Section-A

Answer any **FIVE** of the following questions.

5X5=25M

1. What is the difference between Data and Information?
2. Write the advantages of DBMS.
3. Write about classification of Entity Set?
4. What are the Data Types in SQL?
5. Write the steps to create PL/SQL program.
6. What are the components of DBMS?
7. What is the Concept of Relational Integrity?
8. Write about Cursors.

Section-B

Answer **FIVE** questions.

5X10=50M

9. a) Explain about Classification of Database Management System.
(OR)
b) Explain about Objectives of Database Management System.
10. a) Explain about Data Models.
(OR)
b) Explain about Database architecture.
11. a) Explain about Aggregation and Composition.
(OR)
b) Explain about concepts of ER Model with an example.
12. a) Explain about Data Definition Language commands with syntax.
(OR)
b) Explain the aggregate functions in SQL with syntax.
13. a) Explain about Exception Handling with example program.
(OR)
b) Explain about different types of Triggers.



SIR C R REDDY COLLEGE FOR WOMEN

B.Com-ComputerApplicationsSyllabus(w.e.f:2020-21A.Y)

Skill Enhancement Courses (SECs) for Semester -V

From 2022-23(Syllabus-Curriculum)

Structure of SECs for Semester-V

8 - C	E- commerce application development	5	25	75	4
9 - C	Realtime governance system (RTGS)	5	25	75	4



SIR C R REDDY COLLEGE FOR WOMEN

B.Com-Computer Applications Syllabus (w.e.f:2020-21A.Y)

B.A/B.Com	Semester – V (Skill Enhancement Course- Elective)	Credits: 3T+2L
Course: 8-C	E- Commerce Application Development	Hrs/Wk: 3T+3L

Learning Outcomes:

Upon successful completion of the course, a student will be able to:

1. To apply in an integrative and summative fashion the students' knowledge in all fields of business studies by drafting a website presence plan.
2. To understand the factors needed in order to be a successful in ecommerce
3. To gain the skills to bring together knowledge gathered about the different components of building a web presence
4. To critically think about problems and issues that might pop up during the establishment of the web presence
5. To apply Word Press as a content management system (CMS), Plan their website by choosing colour schemes, fonts, layouts, and more

Syllabus: (Total hours: 75 including Theory, Practical, Training, Unit tests etc.)

Unit-1:

(10h)

Introduction to E-commerce:

Meaning and concept – E-commerce

E-commerce v/s Traditional Commerce

E-Business & E-Commerce – History of E-Commerce

EDI – Importance, features & benefits of E-Commerce

Impacts, Challenges & Limitations of E-Commerce

Unit-2:

(12h)

Business models of E-Commerce: Business to Business

2.1.2 Business to customers

2.1.3 Customer to Customers

Business to Government

Business to Employee

Influencing factors of successful E-Commerce

Architectural framework of Electronic Commerce

Web based E-Commerce Architecture.

Internet Commerce

Unit-3:

(12h)

Electronic data Interchange

EDI Technology

EDI- Communications

EDI Agreement

E-Commerce payment system.

Digital Economy



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B.Com-ComputerApplicationsSyllabus(w.e.f:2020-21A.Y)

Unit -4:

(13h)

A Page on the web - HTML Basics

Client Side scripting -JAVA SCRIPT basics

Server side Scripting- PHP basics.

Unit-5: (13h)

Logging in to Your Word press Site

word press dash board

creating your first post

adding photos and images

creating hyper link

adding categories and tags.

Noted:

Employability – Sky Blue

Skill – Pink

Entrepreneur - Green

Textbooks:

1. Turban, Rainer, and Potter, Introduction to E-Commerce, second edition, 2003
2. H. M. Deitel, P. J. Deitel and T. R. Nieto, E-Business and E-Commerce: How to Programe, Prentice hall, 2001
3. WordPress All-in-One For Dummies -written by Lisa Sabin Wilson with contributions byMichael Torbert, Andrea Rennick, CoryMiller, and Kevin Palmer

Reference Books:

1. Elias. M. Awad, "Electronic Commerce", Prentice-Hall ofIndia Pvt Ltd
2. Ravi Kalakota, Andrew B. Whinston, "Electronic Commerce-A Manager's guide", Addison-Wesley
3. <http://w3schools.com>
4. David Whiteley, E-Commerce: Strategy, Technologies and Applications, Tata McGraw Hill.

RECOMMENDED CO-CURRICULAR ACTIVITIES:(Co-curricular activities shall not promote copying from textbook or from others work and shall encourage self/independent and group learning)

A. Measurable

1. Assignments (in writing and doing forms on the aspects ofsyllabus content and outside the syllabus content. Shall be individual and challenging)
2. Student seminars (ontopicsofthe syllabus and related aspects (individual activity))
3. Quiz (on topics where the content can be compiled by smaller aspects and data (Individuals or groups asteams))



SIR C R REDDY COLLEGE FOR WOMEN

B.Com-ComputerApplicationsSyllabus(w.e.f:2020-21A.Y)

B. General

1. Group Discussion
2. Others

RECOMMENDED CONTINUOUS ASSESSMENT METHODS:

Some of the following suggested assessment methodologies could be adopted;

1. The oral and written examinations (Scheduled and surprise tests),
2. Closed-book and open-book tests,
3. Efficient delivery using seminar presentations,
4. Computerized adaptive testing, literature surveys and evaluations,
5. Peers and self-assessment, outputs from individual and collaborative work

Course- 8C: E- Commerce Application Development; Lab (Practical) Syllabus (15 Hrs)

(Since, the proposed SECs are connected to Computer Programming/Software Tools and Skill enhancement, the students need to get exposure on the syllabus content by practicing on the computer even though there is no formal assignment of credits and laboratory hours for practical sessions. So, as part of the Co-curricular activities and continuous assessment, students should be engaged in practicing on computer for at least 15 hours per semester.)

Case study of e-commerce

1. Home page design of web site
2. Validation using PHP
3. Implement Catalogue design
4. Implement Access control mechanism(eg: username and password)
5. Case study on business model of online E-Commerce store

Note: The list of experiments need not be restricted to the above list. Detailed list of Programming/software tool-based exercises can be prepared by the concerned faculty members.



SIR C R REDDY COLLEGE FOR WOMEN

B.Com-ComputerApplicationsSyllabus(w.e.f:2020-21A.Y)

B.A/B.Com	Semester – V (Skill Enhancement Course- Elective)	Credits: 4
Course: 9 - C	Real Time Governance System (RTGS)	Hrs/Wk: 3

COURSE OUTCOMES:

Upon successful completion of this course, students will have the knowledge and skills to

1. Understand the terms regarding Governance, E-Governance and RTGS
2. . Learn about E-Governance Infrastructure
3. Understand the E-Governance implementation in several countries
4. Understand the E-Governance implementation in several Indian states
5. Understand the applications of RTG

Syllabus: (Total hours: 75 including Theory, Practical, Training, Unit tests etc.)

UNIT 1: Introduction to E-Governance 12hrs

- Government, Governance and Good Governance
- What is E-Governance or Electronic Governance?
- E-Government and E-Governance: A conceptual Analysis
 - ❖ Objectives
 - ❖ Components
 - ❖ application domains
 - ❖ four phase model
 - ❖ implementing E-Governance
 - ❖ issues while implementing E-Governance
 - ❖ Opportunities and challenges
- Types of E-Governance
- What is Real Time Governance
- Real Time Governance Society (RTGS)

UNIT 2: E-Governance Infrastructure

14hrs

- Data Systems infrastructure
 - ❖ Executive Information Systems
 - ❖ Management Information Systems
 - ❖ Knowledge Management Systems



SIR C R REDDY COLLEGE FOR WOMEN

B.Com-Computer Applications Syllabus (w.e.f:2020-21A.Y)

- ❖ Transaction Processing Systems

- Legal Infrastructural preparedness
 - ❖ IT Act 2000
 - ❖ Challenges to Indian law and cybercrime scenario in India
 - ❖ Amendments of the Indian IT Act

- Institutional Infrastructural preparedness
 - ❖ Internet
 - ❖ intranet
 - ❖ extranet
- **Human Infrastructural preparedness**
 - ❖ **Top-level management**
 - ❖ **Middle-level management**
 - ❖ **Low-level management**

- Technological Infrastructural preparedness
 - ❖ Information and communications technology
 - ❖ Data Warehousing
 - ❖ Cloud Computing

UNIT 3: E-Governance: Country Experience 12hrs

- INDIA
- US
- UK
- AUSTRALIA
- DUBAI

UNIT 4: E-Governance in India 12hrs

- Andhra Pradesh
- Karnataka
- Kerala
- Uttar Pradesh
- Madhya Pradesh
- West Bengal
- Gujarat

UNIT 5: **Latest Applications in Real Time Governance** 10hrs

- **Agriculture**
- **Rural Development**
- **Health care**
- **Education**
- Tourism
- Commerce and Trade



SIR C R REDDY COLLEGE FOR WOMEN

B.Com-ComputerApplicationsSyllabus(w.e.f:2020-21A.Y)

Noted:

Employability – Sky Blue

Skill – Pink

Entrepreneur - Green

Textbooks:

1. E-Governance: concepts and case studies| CSR Prabhu| Prentice-Hall|
2. E-Governance| Niranjani, Sanhari Mishra | Himalaya Publishing House

Website References:

1. <http://www.egov4dev.org/success/case/>
2. <http://vikaspeda.in/e-governance/resources-for-vles>
3. <http://altametrics.com/en/information-system/information-system-types.html>
4. <http://core.ap.gov.in/CMDashBoard/Index.aspx>

Co-Curricular Activities:

(Co-curricular activities shall not promote copying from textbook or from others work and shall encourage self/independent and group learning)

A. Measurable

1. Assignments (in writing and doing forms on the aspects of syllabus content and outside the syllabus content. Shall be individual and challenging)
2. Student seminars (ontopicsofthe syllabus and related aspects (individual activity))
3. Quiz (on topics where the content can be compiled by smaller aspects and data (Individuals or groups asteams))
4. Study projects (by very small groups of students on selected local real-time problems pertaining to syllabus or related areas. The individual participation and contribution of students shall be ensured (team activity))

B. General

1. Group Discussion
2. Tryto solve MCQ's available online

RECOMMENDED CONTINUOUS ASSESSMENT METHODS:

Some of the following suggested assessment methodologies could be adopted;

11. The oral and written examinations (Scheduled and surprise tests),
12. . Closed-book and open-book tests,
13. Practical assignments and laboratoryreports,
14. Observation of practical skills,
15. Individual and group project reports.
16. Efficient delivery using seminar presentations,
17. Viva-Voce interviews.
18. Computerized adaptive testing, literature surveys and evaluations
19. Peers and self-assessment, outputsform individual and collaborative work



SIR C R REDDY COLLEGE FOR WOMEN

B.Com-ComputerApplicationsSyllabus(w.e.f:2020-21A.Y)

(Since, the proposed SECs are connected to Computer Programming/Software Tools and Skill enhancement, the students need to get exposure on the syllabus content by practicing on the computer even though there is no formal assignment of credits and laboratory hours for practical sessions. So, as part of the Co-curricular activities and continuous assessment, students should be engaged in practicing on computer for at least 15 hours per semester.)

Note: Here the students have to gather the details in computer lab by surfing several websites & Google Search Engines and submit the report to the class/lab instructor before leaving the lab.

Week 1: Write a Report on the role of Nationwide Networking in E-Governance

Week 2: Write a Report on SETU: A Citizen Facilitation Centre in India, regarding its successful or failure journey.

Week 3: Write a Report on National Cyber Security Policy, how it is useful to Indian citizens.

Week 4: Write a Report on mee-seva/Village Secretariat/Ward secretariat, a new paradigm in citizen services

Week 5: Write a Report on how Andhra Pradesh is implementing RTGS in Agriculture.

Week 6: Write a Report on how Andhra Pradesh is implementing RTGS in social welfare schemes

Week 7: Write a Report on how Andhra Pradesh is implementing RTGS in waste lands, agricultural lands and house properties.

Week 8: Write a Report on Electronic Birth Registration in any one state of our country.

Note: The list of experiments need not be restricted to the above list. Detailed list of Programming/software tool based exercises can be prepared by the concerned faculty members.



SIR C R REDDY COLLEGE FOR WOMEN

B.Com-ComputerApplicationsSyllabus(w.e.f:2020-21A.Y)

Four Year B.A./B. Com (Hons) - Semester – V (from 2022-23)

Subject: Computer Applications for Arts/Commerce

Course-8-C: E-COMMERCE APPLICATION DEVELOPMENT

MODEL QUESTION PAPER (Sem-end. Exam)

(Skill Enhancement Course (Elective), 4 credits)

Max.Marks:75

Time : 3Hrs

Section – A

Answer any 5 Questions.

5X5=25M

1. Distinguish between E-Business and E-Commerce.
2. Write about the history of Ecommerce.
3. Write about E-Commerce Strategy.
4. What are the influencing factors of Successful E-Commerce?
5. Write about DigitalEconomy.
6. Write about the design structure of HTML page
7. Write about variables in PHP.
8. Write about Word press dash board.

Section – B

Answer all the questions.

5 X 10 = 50M

9. a) Explain about EDI importance, features & benefits of E-Commerce.
(Or)
b) Write about Impacts, Challenges and Limitations of E-Commerce.
10. a) Explain about the Business models of E-Commerce.
(Or)
b) Explain about Architectural framework of Electronic Commerce.
- 11 a) Write about EDI Communication, Implementation and Agreements.
(Or)
b) Explain about E-Commerce payment system.
- 12 a) Explain about validation in java script with example
(Or)
b) Explain about A web site evaluation model.
- 13 a) Explain about adding photos, editing an existing post in word press.
(Or)
b) Explain the usage of E-Commerce plug-in with example.



SIR C R REDDY COLLEGE FOR WOMEN

B.Com-ComputerApplicationsSyllabus(w.e.f:2020-21A.Y)

Four Year B.A./B. Com (Hons) - Semester – V (from 2022-23)

Subject: Computer Applications for Arts/Commerce

Course-9-C: REAL TIME GOVERNANCE SYSTEM (RTGS)

MODEL QUESTION PAPER (Sem-end. Exam)

(Skill Enhancement Course (Elective), 4 credits)

Max.Marks:75

Time: 3Hrs

Section-A

Answer Any Five Questions

5*5=25M

1. Define RTGS
2. Explain about Good Governance
3. Short note on Knowledge Management Systems
4. Define Transaction Processing Systems
5. Define E-Governance in India.
6. What is Cloud Computing
7. Define Data Warehouse
8. Note on Commerce and Trade

Section-B

Answer ALL Questions

5*10=50M

9.a What is E-Governance? Objectives, Components, application domains?

(Or)

b. Write about the types of Real-Time Governance (RTG).

10.a. Write Note on Data Systems Infrastructure, Executive Information Systems and Management Information Systems.

(Or)

b. Explain Legal Infrastructural preparedness and Cyber Crime scenario in India.

11.a. Explain E-Governance, Country Experience of US.

(Or)

b. Explain E-Governance: Country Experience of INDIA.

12 a. Explain case study-Governance in India of state Andhra Pradesh.

(Or)

b.Explain case study E-Governance in India of Gujarat state.

13.a. Write Applications in Real Time Governance in Agriculture sector?

(Or)

b.Write Applications in Real Time Governance inEducation Sector.