7. Computer Science-II

Course Content

Unit 1: System Development Concept

- 1.1 Introduction: System, Information System
- 1.2 Types of Information System
- 1.3 System Analyst roles, responsibilities and characteristics
- 1.4 System development Life Cycle (SDLC)
- 1.5 Importance and the necessity of SDLC
- 1.6 System Development Models: Waterfall, Prototype, Spiral
- 1.7 System Development Phase
- 1.7.1 System Study
- 1.7.2 System Analysis Feasibility Analysis
- 1.7.3 Feasibility Study: Technical, Economical, Operational
- 1.7.4 System Design
- 1.7.5 System Development
- 1.7.6 System Testing
- 1.7.7 Implementation
- 1.7.8 Maintenance and Reviews
- Concept of System Design Tools (Context Diagram, DFD, E-R Diagram, System Flow Chart, Decision Table, Decision Tree, Use Case, UML)
- 1.9 Case Study

Unit 2: Database

- 2.2.1 Concept of Database
- 2.1.1 Introduction: Data, Information, Database and DBMS
- 2.1.2 Objectives of DBMS
- 2.1.3 Database Model: Relational Model ,Network Model, Hierarchical Model, Entity Relational Data Model
- 2.1.4 Concept of Normalization
- 2.1.5 Types of Normalization 1NF, 2NF, 3NF
- 2.1.6 Structured Query Language
- 2.1.7 Centralized Vs. Distributed Database
- 2.1.8 Data Security
- 2.2 Design Database using DBMS Software
- 2.2.1 Create a Database
- 2.2.2 Create Tables and Fields and its properties
- 2.2.3 Create a Relational Databases
- 2.2.4 Create and Run Queries
- 2.2.5 Working with Forms
- 2.2.6 Generate Reports
- 2.2.7 Formatting Forms and Reports
- 2.3 Project Work on DBMS Software

Unit 3: Communication and Networking

- 3.1 Introduction: Definition, Purpose of networking
- 3.2 Analog and Digital Signal, Modulation(AM, FM, PM)
- 3.3 Direction of communication flow(Simplex, Halfduplex,)
- 3.4 Types of Network: Peer-to-peer and Client/Server, LAN, MAN and WAN
- LAN Topologies :Bus, Star, Ring, Tree, Mesh Topologies (Its definition, structure, advantages & disadvantages)
 - 3.6 Transmission Media: Bound Media (Coaxial Cable, Twisted Pair cable and Optical Fiber Cable its description, structure, advantages and disadvantages), Unbound Media (Satellite, Wireless Media, Microwave Transmission)
- Network Connecting Device: Modern, NIC, Switch / Hub, Router, Gateway, Repeater, Bluetooth, IR. WiFi
- 3.8 OSI Raference Model Laver wise use and function
- 3.9 Communication Protocol: TCP/IP, SMTP, POP3, FTP, HTTPs, Telnet protocol
- Demonstration of Communication Media and Connecting Devices

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| 4.2.2 | Use of Comments | |
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| 10.1 | | ct 10.2 d be assigned to | Project Development individual students.) | t using C Programming |
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| Attor | mpt any FOUR Questions. | h w (rould with | swer Questions) | indiann's renty |
| 1. | What is Entry-Relationship Da | to Model 2 Cive | on ED disasom for a d | [4×10=40] |
| ents. | | | | |
| 2. | motherhood and spouse relati | | | [4+6] [From Unit 2] |
| 2. | The rate of interest offered | | | |
| | | ii. Period 6 to | | bove 1 year 10% |
| | Write a flowchart and pro- | ogram using | c language to calcu | |
| | customers. | u alaine | ing i var in singten en in | [3+7] [From Unit 4] |
| 3. | Write a program that read | s several diffe | rent names and add | resses into the computer |
| | rearrange the names into a | alphabetical or | der. Make use of stru | cture variables. [10] |
| 201.00 | A had base 5 to 6 to 8 | CT. | The second of the second of | [From Unit 4] |
| 4. | Write a program that will i | read successiv | re records from the r | new data file and display |
| | each record on the screen | | | |
| 5. | Write a program with fur | ection and inp | ut menu from keyb | pard and activate these |
| | functions. | AVIII IVIETA III. Irai | Terental National Conference | [10] [From Unit 2] |
| | i. print a circle () | ii. | reverse string () | |
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| in Am | npt any SEVEN Questions. | ים וכווסוג אווכ | mer adeadonaj | |
| Atten | | | | [7E 0E] |
| _ | | Mby fossibility | salay ? Exalan ina | 7×5=35] |
| 6. | What is feasibility study ? \ | Why feasibility | study is important in | system analysis phase? |
| 6 | What is feasibility study ? \ Explain. | | สมเครียดอย่า เพลาะ คร. | system analysis phase ? |
| 6. | What is feasibility study? NExplain. What are the different type | | สมเครียดอย่า เพลาะ คร. | system analysis phase ? [2+3] [From Unit 1] ts and demerits of Star |
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Exam Questions

Unit 1: System Development Concept

| 1. | Describe SDLC with diagram. | 5 [Q.N.6, 2072'C'] |
|--------------|--|--|
| 2. | | 5 [Q.N.6, 2072'D'] |
| 3. | Who is system analyst? List out characteristics of system analyst. | |
| 4. | Describe system flowchart with diagram. | 5[Q.N.8, 2072'D'] |
| 5. | What is feasibility study? Why it is necessary before designing a | |
| J. | | [Q.N.6, Supp. 2071] |
| 6. | What is system analysis and design? Describe briefly. | 5 [Q.N. 6, 2071] |
| 7. | | [Q.N.6, 2070 'Supp'] |
| | | 1+4 [Q.N. 6, 2070 'C'] |
| 8. | | 1+4 [Q.N. 6, 2070 'D'] |
| 9. | | |
| 10. | | 1+4 [Q.N. 7, 2070' D'] |
| 11. | Who is system analyst? List the major roles of system analyst.2+3 | |
| 12. | What is feasibility study? Explain the different levels of feasibility | |
| boothe | | [Q.N. 9, Supp. 2069] |
| 13. | Explain different stages of system development life cycle with clear figure | |
| 21. | What is feasibility study? Why feasibility study is important in sys | 12 12 12 12 12 12 12 12 12 12 12 12 12 1 |
| | | N. 4, 2068 1st Exam.] |
| 14. | Who is system analyst? Highlight the characteristics of a good ar | |
| EX. 6. 11 | | N. 8, 2068 1st Exam.] |
| 15. | What are the documentation techniques? Explain with examples | |
| 157155110 | The state of the s | . 10, 2068 1st Exam.] |
| 16. | What is feasibility study? Explain different levels of feasibility stu | |
| the state of | | . 5, 2068 2nd Exam.] |
| 17. | What is system analysis? What are the major objectives of system | m analysis ? Explain. |
| Day Straight | 2+5 [Group - B, Q.N. 8, 2068 2nd Exam.] | ven a refolkt 2 |
| 18. | Define program logic. Explain different types of program logic tool | |
| fa.ture | | l. 7, 2068 2nd Exam.] |
| 19. | What is system analyst? Explain the major roles of system analyst | |
| 115 A 17 | Asset To the Control of the Control | oup - B, Q.N. 4, 2067] |
| 20. | What is feasibility study? Explain the different levels of feasibility | |
| V-45 N | u a z - 4 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 | oup - B, Q.N. 5, 2067] |
| 21. | | oup - B, Q.N.5, 2066] |
| 22. | What are the different program logic tools? Explain about th | |
| (1, 31/1), | | oup - B, Q.N.9, 2066] |
| 23. | Explain about the different testing techniques during the system of | levelopment. |
| TEALER | | up - B, Q.N.11, 2066] |
| 24. | Who is a system analyst ? Explain the major role of system analy | st. 2+5 |
| | | oup - B, Q.N.5, 2065] |
| 25. | What is documentation ? Explain the importance of documentation | nentation in program |
| 3.55 | | up - B, Q.N.11, 2065] |
| 26. | Who is system analyst? Explain the different stages of system de | evelopment life cycle. |
| (4.110) | 2+5 [Gro | up - B, Q.N. 6, 2064] |
| 27. | What is feasibility study? Explain different levels of feasibility stu | |
| 16.5- | | up - B, Q.N. 9, 2064] |
| 28. | What is program logic ? Explain the different types of program log | |
| _5. | | up - B, Q.N. 4, 2063] |
| | Zio Jan | |

5 [Q.N. 10, Supp. 2069]

1+4 [Q.N. 8, 2069]

| | Computer Science in 200 |
|-----------------|--|
| 29. | Who is a system analyst ? Explain the major role of system analyst. 2+5 [Q.N. 4, 2062 |
| 30. | What is feasibility study? Explain the different levels of feasibility of study. 2+5 |
| 31. | What is system analysis? Explain the different steps of system development life cycle. 2+5[Group - B, Q.N. 11, 2062 |
| 32. | Define feasibility study. Why feasibility study is important in system developmen process. Explain. 2+5 [Group - B, Q.N.5, 2061] |
| 33. | What are the documentation techniques ? Explain any three of them. 2.5+4.5 [Group - B, Q.N.9, 2061 |
| 34. | What do you mean by feasibility study ? Why is it necessary before designing a system ? 4+3 [Group - B, Q.N.4, 2060] |
| 35. | State the steps involved in system development cycle in chronological order. Explair data security laws. 5+2 [Group - B, Q.N.9., 2059 |
| 36. | What is the importance of Data Flow Diagrams in the S.D.L.C. ? What do you mean by the following terms ? (any two): |
| | (a) Physical System (b) C.A.S.E. (c) P.I.E.C.E.S. (c) Feasibility Study [Q.N. B.1., 2058 |
| 37. | Define the term system. List different stages of system development life cycle Highlight the importance of the first two stages. [Group – B, Q.N. 1, 2057] |
| 38. | Who is systems analyst ? Highlight the characteristics of a good analyst. [Group - B , Q.N. 2, 2057] |
| 39. | Write short notes on : (i) E-R diagram |
| | (ii) Feasibility Study. [Group – B, Q.N.12(b), 2065 (iii) Feasibility study [Group – B, Q.N. 12(i), 2063 |
| augni Diesag | Unit 2: Database |
| ups/ju | Define DBMS. List out the objectives of DBMS. 1+4[Q.N.7, 2072'C' |
| 1.00 | Define DBMS. List out the objectives of DBMS. 1+4[Q.N.7, 2072'C' What is Relational database model? List the advantages and disadvantages o |
| 2008 | Relationship database model. 1+4[Q,N.8, 2072'C' |
| 3. | Describe the terms 'SQL' and 'DML'. 2.5+2.5 [Q.N.9, 2072'C' |
| 2000 | Describe any two database model with diagram. 5[Q.N.10, 2072'D' |
| 4. | What is Ms-Access? What are the basic components of micro-soft Access? List out. |
| 5. | / |
| | Who is database administrator? List the roles of database administrator. |
| 6. | with our database authinistrator is the roles of database authinistrator. Supp. 2071 |
| 4 | |
| 7. | What is database? List out the advantages of Database Management System. |
| 1375 | 8 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 |
| 8. | Describe the centralized and distributed database system. 5 [Q.N. 9, 2071] |
| 9. | Explain the database models with clear diagrams. 5 [Q.N.7, 2070 'Supp' |
| 10. | What is DBMS ? List out the functions of DBMS. 1+4 [Q.N.8, 2070 'Supp' |
| 11. | What is Hierarchical database model? List out the advantages and disadvantages o Hierarchical database model. 1+4 [Q.N. 7, 2070' C" |
| 12. | Explain the centralized and distributed database models. 2.5+2.5 [Q.N. 9, 2070 'C' |
| 13. | Differentiate between DBMS and RDBMS with examples. 2.5+2.5 [Q.N. 8, 2070 'D' |
| 14. | Explain the major features of database application software. 5 [Q.N. 8, Supp. 2069] |
| 45 | Evaluin the honeits of controlived detabase 5 (O N 10 Cupp 2060) |

15.

16.

Explain the benefits of centralized database.

What is database? List the major uses of database application software.

Surname

Title Address Post code Date of birth

First name

Title

Author

Date Published

Borrower ID

Date Due

- (a) Creat a data flow diagram for the overdue books processing. 5[Group A, Q.N.1.(a), 2060]
- (b) Explain the terms logical physical design mapping logical design to physical design.

 5 [Group A, Q.N.1(b)., 2060]
- (c) Write a program using any x-base system to generate the overdue books report. 10 [Group - A, Q.N.1(c)., 2060]
- 41. Answer any two of the following questions in Group A. 2×20=40
 A hospital deals with a large number of patients each day. Appointments are made for each hour of the day from 09.00 to 18.00 for OPD patients. Different registers are maintained to record different aspects of hospital such as Doctor's details, doctor's time table and registration file for each doctor. When patient arrive, they are register depending on their request or requirement. These registration are made in the registration file. Which is made available to the respective doctors.

(a) Create a flow chart to show registration this system of management has to be computerized.

- (b) Identify the entities of the system, their attributes and relationship between these entities. Use ERD to show the relationship.
- (c) Using any xBASE system write down a program that would be used to create a program that will be used by the counter person to register the patient based on your ERD developed in question.1 (b). 10 [Group A, Q.N.1., 2059]
- 42. (a) What do you understand by the term data integrity? Why it is important thing to be considered while designing a database. State and describe different types of data integrity.

 5 [Group A, Q.N.2(a)., 2059]
 - (b) What is data security ? How it can be implemented ? 5 [Group A, Q.N.2(b)., 2059]
- (c) Now different banks are using ATM system. These machines read the information of the account from the ATM card and accept the pin code. Suppose validation is made based on pin code in ATM, and pin code entered for the account holder and Account number is read from the card. If valid amount to withdraw is accepted, it is again verified to the amount is account. If withdraw is possible then the amount is provided and is recorded in respective files. Write a program for the ATM coming any xBase system.

 10 [Group A, Q.N.2(c)., 2059]
- 43. You have been asked to create a database program for a departmental store to generate sales bill. The information are stored in stock, bill and bill details file.

| Stock | | | Bill | American Commission | era fi |
|---------------------|-----------|------|--------------|---------------------|--------|
| Item Code | Numeric | 4 | Bill No. | Numeric | 6 |
| Item Name | Character | 40 | Bill Date | Data time | |
| Re-order level | Numeric | 2 | Bill Details | TE CISTOSSE IS | |
| Sales price | Numeric | 5 | Bill No. | Numeric | bns 6 |
| Quantity in Hand | Number | 4 | Item Code | Numeric | 4 |
| accounty in rivaria | | Rate | Numeric 87 | s 5 man 6 | |
| EA MIN | | Quan | tity | Numeric | 2 |

- (a) Create a data flow diagram for the billing process. 5

 (b) Explain the terms logical physical design mapping logical design to physical design. 5
 - (c) Write a program using any xBASE system to generate the bill for the sales.10
 [Group A. Q.N.3., 2059]
- 44. Differentiate between Database and DBMS. Explain the top down methodology of Database design. 3+4 [Group B, Q.N.4., 2059]
- Write a function using any xBase system, which will accept a number and returns true if prime number and false if non-primary number.
 7 [Group B, Q.N.6., 2059]
 Explain the benefits of Centralized Database. What are major responsibilities of a
- Database Administrator ? What are the objectives of system analysis ? 2+3+2
 [Group B, Q.N.11., 2059]

Grove - B. Q.N. 3, 2057

47. The company XYZ Pvt. Ltd. wishes to computerise its payroll process. The company has employed a data entry operator to enter the data into a database that has the following database structure:

| Field | Field Name | aType faterrap of maleys pages | Width Dec |
|-----------|--------------|---------------------------------------|--------------------------------|
| (000% | 1.Emp Code | Numeric | 3 |
| 61 = 635 | 2.First Name | Character A - card 6 and agr | at 20 walks left to and use in |
| Tuffer 16 | 3.Surname | Character A Contrass about | 110 officer specification is |
| | 4.Post | Character 9 090 to 100 00 | of 20 30 moneyets and to |
| andir d | 5.Departmen | pects of ruspital such As DO n | Character 20 |
| tetal | 6.Basic | Numeric | 7 0 000 000 2 0 |
| वर्ताः व | 7.Married | Logical | no leavon regist no gala |
| art of a | 8.JobStatus | Character | Them of mould used more |

Develop a program in any one xBASE package which uses this database and prints out the payroll slip for each employee at the end of each month,

Calculation rules:

The following allowances are added to the basic salary:

- (a) House Rent Allowance (HRA) (b) Transportation Allowance (TA) The following leans the deductions are made from the basic salary:
- ment make (a) Provident Fund (PF) and most only at operational pay on feder

(i) Normalization of data

than the se(b) Income tax deduction. In a unimposity skirty, by the last of the

The rules for calculating the net salary are:

- 1. The field 'Job Status' may contain either a 'T' (for temporary status) or 'p'(for permanent status). The Field Married may contain the value T. (for married) or .F. of constitute (for unmarried)
- 2. HRA is calculated at 10% of BASIC salary for permanent employees // Deligeo (JobStatus = P)
- 3. TA is calculated at 10% and 6% of BASIC salary for permanent and temporary (JobStatus) =T) employees respectively.
- 4. PF is calculated at 10% of BASIC salary for permanent employees only.
 - 5. Income tax is calculated on the annual income (12 x Basic) and has the following rules:

| Annual Salary | | 11000 | Married | Unmarried | |
|---------------------------------|--------|-----------|-----------|----------------|--|
| a. Upto 45,000 | | | 0% | 0% | |
| b. Greater than 45,000 | | - 50 11 4 | 10 | Of the same St | |
| and upto 60,000/ | | oneme/ | 0% | 5% | |
| c. Greater than 60,000 and upto | 75,000 | | 5% | 10% | |
| d. Greater than 75,000 | dad . | | 10% | 15% | |
| Supresco vitro | er-C | | Various . | ION A 1 | |

[Q.N. A.1., 2058]

Name the different models of DBMS. Write short notes on any three of the following:1+6 (a) S.Q.L. (b) Data Dictionary (c) E.R.D (d) D.D.L. [Q.N. B.2., 2058]

What are Domains and Tuples? What are the characteristics of a good data model?

2+5 [Q.N. B.3., 2058] 2+5

What is prototyping? Write short notes on any two of the following:

(iii) RDBMS [Q.N.B.8., 2058] Fund for using any xBase system, which will assent from the range return

What is the role of a Database Administrator? What are the duties and responsibilities of a System Analyst? 2+5 [Q.N. B.9., 2058]

(ii) Data security

52. Define the term RDBMS. State the four guiding principles used in database design.

[Group - B. Q.N. 3, 2057]

| | autorial director | o the Lagrand ye | in lyings | Computer Science 207 |
|---------|-------------------------------------|---------------------------|--------------------|---|
| 53. | A database file contain | ns the records of ite | ms with following | fields. |
| | Fieldname | Field Type | Field Size | CONTRACT LAND CONTRACT |
| 2062 | Item code | Numeric | 4 | |
| reads. | Item name | Alphabetic | 3 p. 15 14 o | er derbend W . If |
| Imar? | Quantity in stock | Numeric | 3 | SAL TO SHOUT - SHAPE - IT |
| * | Recorder level | Numeric | | |
| (mer | Minimum level | Numeric | 3 | |
| 110 2 | Minimum level is the | quantity of items in | stock that must b | e maintained at any cost for |
| FORE | the smooth operation | of the organization | n. The reorder le | vel is the quantity of items |
| | | | ached indicates t | hat the management has to |
| [dedS | place the order for that | | | |
| isatis. | Develop a program in | any one of xBASE | packages, which | displays a main menu with |
| -6.18 | options for Item Entry | , Item Update, Item | Delete and Repo | ort. The program should not |
| 21953 | allow to enter two re | cords with same | Item code when | entering Item details. The |
| | program should displa | ly a message such | as "Module yet t | o be developed" for Update |
| MBBH | and Delete options in | the main menu. if | an user chooses | a Report option in the main |
| | menu, the program sh | ould print the name | s or items. | 22 Continuorum |
| | (a) Whose stock is | below the minimum | nevel. | [Group - A , Q.N. 1, 2057] |
| | | within 10% above r | eorder level. | [Group - A , G.N. 1, 2007] |
| 54. | Write short notes : | | | (O N 15/h) Sunn 20711 |
| Dall. | (a) Data security | A Missings | CULTA PROGRAMME | [Q.N.15(b), Supp. 2071] |
| | (a) Normalization | the different tens | materials a factor | [Q.N. 15 (b), 2071] [Q.N. 15. (a), 2070 'D'] |
| 1985 | (b) Normalization | | | TO N 42 (6) 0070 1011 |
| sidil h | (c) Data dictionary | node still Callean | meating as va- | [Q.N. 15 (b), Supp. 2069] |
| 1896.0 | (d) SQL | HU " | (Group - B C | 2.N. 12(a), 2068 2nd Exam.] |
| | (e) Data dictionary | त्व वर्ग हरा हा विश्वाहरू | [Group - D, G | roup - B, [Q.N. 7 (a), 2067] |
| 3-1 | (f) Data security | | | roup - B, Q.N. 12(b), 2064] |
| 3008 | (g) Normalization | posterior in Prospe | | roup - B, Q.N. 12(ii), 2063] |
| | (h) Data security (i) Normalization | K sort i ne obic a | N KOU SONIO | roup - B, Q.N. 12(c), 2062] |
| | (i) Normalization | | I C | 10up - D, Q.H. 12(0), 2002] |

Unit 3: Communication and Networking

Data dictionary

Date modeling

(n) Data security

(m) Advantage of DBMS

DML

[Group - B, Q.N. 7(a), 2062]

[Group - B, Q.N.5(a)., 2059]

[Group - B, Q.N. 4(c), 2057]

[Group - B , Q.N. 4(b), 2057]

[Group - B , Q.N. 4(a), 2057]

2.310 N 10 2072'C'T

| | 1.00 | Define computer network and explain its uses. | |
|------|---------------|--|-----|
| | 2. | Describe 'simplex', half duplex' and 'full duplex' with example. 1+2+2 [Q.N.11, 2072'C | [" |
| | 3. | What is Networking? List the advantages of Networking. 1+4[Q.N.9, 2072'D. | [יכ |
| | 4.000 | Describe Network topologies with diagram. 5[Q.N.11, 2072'[| [יכ |
| | 5. | What is computer network ? Explain its uses. 2+3=5 [Q.N.7, Supp. 2071] | 2 |
| | 6. | What is Network topology? Describe any two network topologies with clear diagram. | |
| | 10700 | 1+4=5 [Q.N. 8, 207 | 1] |
| | 7. | Describe the 'Coaxial cable' and 'Satellite' with examples. 2.5+2.5=5[Q.N. 10, 207 | 1] |
| . 16 | 8. | Define computer networks and explain their uses. 1+4 [Q.N.9, 2070 'Supply and a supply and a supply and a supply and a supply a s | o'] |
| ì | 9. | Describe 'Simplex', 'half duplex' and 'full duplex' channel of communications w | ith |
| | doless n | examples. 5 [Q.N.10, 2070 'Supp | p'] |
| | 10. | What is Networking? List out the advantages and disadvantages of Networking. | |
| | | 1+4 [Q.N. 8, 2070 'C | 2"] |
| | 11. | Explain any two transmission media with appropriate diagrams. 2.5+2.5 [Q.N. 10, 2070 '0 | ['0 |
| | W120000-03000 | CONTRACTOR PROCESSAGE CONTRACTOR | |

| 13. 14. 15. 16. 17. | What What What What diagra | are the types of LAN topologicare types of LAN topology? Explais local area network? Explain | types of LAN topologies with diagram. 1+4 [Q.N. 7, Supp. 2069] es? Explain with diagrams. 5 [Q.N. 7, 2069] in with diagram. 7 [Group - B, Q.N.,10,2068 2nd Exam.] in different types of topologies with diagrams. 2+5 [Group - B, Q.N.,6,2068 1st Exam.] |
|---------------------------------|--|--|---|
| 15. 16. 17. | What a What What diagra | are types of LAN topology? Expla is local area network? Explai | es? Explain with diagrams. 5 [Q.N. 7, 2069] in with diagram. 7 [Group - B, Q.N.,10,2068 2nd Exam.] n different types of topologies with diagrams. |
| 16. 17. 18. | What a What What diagra | are types of LAN topology? Expla is local area network? Explai | in with diagram. 7 [Group - B, Q.N.,10,2068 2nd Exam.] n different types of topologies with diagrams. |
| 17. 18. | What | | |
| 18. | diagra | is network topology ? Explain | |
| | Dofin | | ain the different types of network topologies with 7 [Group - B, Q.N. 6, 2067] |
| STATE OF BUILDING | Delili | e Network Architecture. Explai | in client-server and peer-to-peer networking. 2+5 [Group - B, Q.N.4, 2066] |
| 19. | Expla | in about OSI/ISO model of ne | |
| 20. | | | n the different types of topologies with diagrams. 2+5 [Group - B, Q.N.4, 2065] |
| 21. | | is networking ? Distinguis | h between star topology and ring topology of |
| 22. | | | dvantages and disadvantages of networking. 2+5 [Group – B, Q.N. 10, 2063] |
| 23. | What | is local area network? Explain | n the different types of topologies with diagram. 2+5 [Group - B, Q.N. 6, 2062] |
| 24. | What | are the different types of LAN | |
| 25. | | | re the different types of LAN topology ? Explain. 3+4 [Group - B, Q.N.5, 2060] |
| 26. | | do you mean by transmission | media ? Write short notes on UTP cable and fibre 3+2+2 [Group - B, Q.N.10, 2060] |
| 27. | The Art of the State of the Sta | | What do you understand by the following terms (any 1+6 |
| ACCO. | (a) Cli | ient-Server Network (b) Wo | rkstation (c) Protocol [Q.N. B.4., 2058] |
| 28., | | | the different types of topologies with diagrams. [Group - B , Q.N. 5, 2057] |
| 29. | Write | short notes on the following: | A SAME AND |
| VENC I | (a) | Protocol | [Q.N.15(a), Supp. 2071] |
| ASSESSED OF | (b) | Satellite | [Q.N. 15 (ii), 2069] |
| | (c) | Coaxial Cable | [Q.N. 15. (i), 2069] |
| | (d) | Packet switching. | [Group - B, Q.N. 12(b), 2068 2nd Exam.] |
| | (e) | Coaxial cable | [Group – B, Q.N. 12 (a), 2067] |
| and other trans | (f) | Satellite | [Group - B, Q.N. 12 (b), 2067] |
| 7 TH | (g) | Client server network | [Group - B, Q.N. 7(i), 2063] |
| 103.69 | (h) | Workstation | [Group – B, Q.N. 7(ii), 2063] |
| 31,50 | (i) | Protocol | [Group – B, Q.N. 7(iii), 2063] |
| | (i) | Coaxial Cable | [Group – B, Q.N. 12(a), 2062] |
| | (k) | Satellite | [Group – B, Q.N. 12(a), 2002] |
| (1)32 | - Total - 1 | the second state of the control of the second second | |
| 1501.8 | (l) (m) | Fiber-optic Cable Bus-Topology | [Group – B, Q.N.8(b), 2061] [Group – B, 5(b), 2059] |
| 1300 0 | (n) | Transmission media | |

Unit 4: Programming in C

 Write a program which find the sum, difference and product of 2 numbers using switch case statement.
 10 [Q.N.1, 2072'C']

2. (a) Differentiate between while and Do-while loop with appropriate example.

2.5+2.5 [Q.N.2(a), 2072'C']

| | and the cost on a secretary of the of a server transfer of the Computer Science 209 |
|---------------|--|
| inde/8 | (b) Write a program to display the following: |
| | 27. After a kinger which this its user a print in years of number and find |
| | 97921.27.0) Ut marmin her your primary knatowiestawy |
| | 0700123016-8 ettinsk i investigation in instrumentalise politici is |
| | modifi 1 2 3 4 is straibule of top and a recession of the wind produce of the control of the con |
| | [Q.N.2(b), 2072'C'] |
| 3. | Write a program which askes nth terms of numbers and sort them in ascending order. [Q.N.3, 2072'C'] |
| 4. | (a) What is function? List out the advantages of functions. 1+4 [Q.N.4(a), 2072'C'] |
| [0,04 | (b) Write a program to find the factorial of a given number. 5[Q.N.4(b), 2072'C'] |
| 5. | (a) Describe fscanf and fprintf function. [Q.N.5(a), 2072'C'] |
| EO, oxe | (b) Write a program which asks name, age, roll-number of student and write it in a file |
| 15 19sin | MR student dat. 20940igns 25 to visible 2004 in many 5[Q.N.5(b), 2072'C'] |
| 6. | Differentiate between array and structure with example. 5 [Q.N.12, 2072'C'] |
| 7.0018 | (a) What is looping? Describe 'for' and while loop with appropriate exmaples. 1+2+2 |
| | 02.8 Mag [Q.N.1(a), 2072'D'] |
| 19 156 | (b) Write a program to check if a given number is odd of even using if statement. 5 |
| N. SERVICE PO | Mining record in the constraint sometimes admissible for mutate loan [Q.N.1(b), 2072'D'] |
| 8. | Describe any five string handling functions with examples. 10 [Q.N.2, 2072'D'] |
| | What is array? Write a program to find addition of two matrices (3 x 3). |
| | [Q.N.3, 2072'D'] |
| 10. | (a) Differentiate between Structure and Union. 2.5+2.5 [Q.N.4(a), 2072'D'] |
| | (b) Write a program to find greatest number among four numbers. |
| | 5[Q.N.4(b), 2072'D'] |
| 11. | (a) Describe any two file handling functions. 2.5+2.5[Q.N.5(a), 2072'D'] |
| | (b) Write a program to display name, age and address reading from file |
| 500 | "record .dat". 5[Q.N.5(b), 2072'D'] |
| 12. | What are the data types available in C programming ? Explain in detail with examples. |
| | s leaghal along limi an class routy mapping a separate and [Q.N.1, Supp. 2071] |
| 13. | What is looping ? Write a program to calculate and display the multiplication table |
| BURN H | using nested loop. 2+8=10 [Q.N.2, Supp. 2071] Describe the "strcat", "strcpy", "strcmp", "strlen" and "strrev" string functions with |
| 14. | Describe the "strcat", "strcpy", "strcmp", "strlen" and "strrev" string functions with |
| ample | examples. 10 [Q.N.3, Supp. 2071] |
| 15. | Write a program to arrange the elements of an array in ascending order. |
| Spiviors | 10 [Q.N.4, Supp. 2071] |
| 16. | What is "fscantf" function? Write a program to display name, age and address reading |
| | from a file named "record.dat." 2+8=10 [Q.N.5, Supp. 2071] |
| 17. | What are operators used in C programming ? Explain with examples. |
| | 1048 1048 3 Dt 5 [Q.N.8 (or), Supp. 2071] |
| | Explain the array and structure with examples. 2.5+2.5 [Q.N.9, Supp. 2071] |
| 10. | What is function? Write a program to generate factorial of a given number using |
| | |
| Maa b | |
| 20. | Describe any five 'file handling functions' with examples. 10[Q.N. 2, 2071] |
| 21. | What is looping? Describe 'for loop', 'while loop' and 'do-while loop' with appropriate |
| 1941 | examples. Here to expensive entriquency accused our type of my 1+9=10 [Q.N. 3, 2071] |
| 22. | Write a program which asks 100 numbers and sort them in ascending order. |
| Marien. | sile a more egg bars transferable errors as as riskly material 10 [Q.N. 4, 2071] |
| 23. | Write a program to find greatest number among four numbers. 10 [Q.N. 5, 2071] |
| 24. | Describe the different data types which are used in C-programming. 5 [Q.N. 11, 2071] |
| 05 | Write a pressure which finds the sum difference and product of 2 numbers using switch |

Write a program which finds the sum, difference and product of 2 numbers using switch

case statement.

10 [Q.N.1, 2070 'Supp']

| 26. | Describe the types of loop with flowchart and examples. 10 [Q.N.2, 2070 'Supp'] Write a program which asks the user to input 'n' terms of number and find out the |
|------------|---|
| 00 | greatest and smallest number among those numbers. 10 [Q.N.3, 2070 'Supp'] Differentiate between array and structure with suitable examples. 5+5 [Q.N.4, 2070 'Supp'] |
| 28. 29. | Write a program which asks name, age, roll number of students and write them in a file |
| 20 | "xyz.dat". 10 [Q.N.5, 2070 'Supp'] What is operator? Describe the types of operators with appropriate examples. |
| 30. | what is operator? Describe the types of operators with appropriate examples. 1+4 [Q.N.11, 2070 'Supp'] |
| 31. | What is nested loop? Write a program to display the multiplication table of nth terms of |
| 32. | given numbers. 2+8 [Q.N. 1, 2070 'C'] Describe any five "string handling functions" with examples. 10[Q.N. 2, 2070 'C'] |
| 33. | Describe array, structure and pointer with examples. 10 [Q.N. 3, 2070 'C'] |
| 34. | Write a program which reads salary of 25 employees and count the number of |
| 04. | employees who are getting salary between 30,000 to 40,000. 10 [Q.N. 4, 2070 'C'] |
| 35. | Describe f print f scan f file handling functions. Write a program which writes "Welcome |
| | to Nepal" in a file. 10 [Q.N. 5, 2070 'C'] |
| 36. | Differentiate between "While" and "Do-While" loop with flowchart. 2.5+2.5 [Q.N.11,2070'C'] |
| 37. | What is control statement? Describe 'Sequence'. 'Selection' and 'Loop' with flowchart |
| 1362 | and examples. 2+8 [Q.N. 1, 2070 'D'] |
| 38. | Write a program which reads name of 20 employees and sort them in alphabetical |
| 100 | order. 10[Q.N. 2, 2070 'D'] |
| 39. | Differentiate between structure and union with suitable examples. 5+5 [Q.N. 3, 2070 'D'] |
| 40. | What is recursion? Write a program to calculate factorial value of given number using |
| 130.514 | recursive function. 5+5 [Q.N. 4, 2070 'D'] |
| 41. | Write a program which reads name, department and age from a file named |
| 1003 | "employee.dat" and display them. |
| 42. | Describe the data types which are used in C programming. 5 [Q.N. 9, 2070 'D'] |
| 43. | Differentiate between user defined function and library function with examples. |
| 44. | What is control statement? Write a program which selects and prints largest among 3 numbers using if-else statement with flow charts. 2+8 [Q.N. 1, Supp. 2069] |
| 45. | What is recursion? Write a program to calculate factorial of a given number using |
| | recursive function. 2+8[Q.N. 2, Supp. 2069] |
| 46. | What is looping? Describe "for", "while" and "do while" loop with appropriate examples. 1+9 [Q.N. 3, Supp. 2069] |
| 47. | How do you initialize an array? Write a program to subtract two matrices by supplying |
| Thes | elements of matrices by the user. 2 +8[Q.N. 4, Supp. 2069] |
| 48. | What is 'f print f' function? Write a program which asks name, age and roll-number of |
| | students and write it in a file named "record.dat". 2 +8 [Q.N. 5, Supp. 2069] |
| frinc. | [Q.N. 8,(or), Supp. 2069] |
| 49. | What is looping? Describe "for", "while" and "do-while" loops with appropriate |
| 96 to 1 | examples. 149 [Q.N. 1, 2069] |
| 50. | What is control statement? Write a program which selects and prints largest among 3 |
| | numbers using "if-else" statement with flow charts. 2+8[Q.N. 2, 2069] |
| 51. | What is string? Explain any four string handling functions with example. 2+8 [Q.N. 3, 2069] |
| 52. | Write a program to add two matrices by supplying elements of matrices by the user. |
| J. | #200 do Oneses a case of the matter by deptying donor with the 10 [Q.N. 4, 2069] |
| 53. | Write a program which reads name, department and age from a file named |
| 10214 | "employee.dat" and display them on the monitor. 10 [Q.N. 5, 2069] |
| 54. | Differentiate between array and structure. 1+4 [Q.N. 8(or), 2069] |
| 55. | (a) Explain data types used in programming with examples. |
| 00. | (a) Explain data types used in programming with examples. |

| er an | (b) | Write a program to read a line of text and to convert in into uppercase. 5 |
|---|-----------------------|--|
| 130 | あるり | [Group – A, Q.N. 1(b), 2068 1st Exam.] |
| | (c) | Compare "While", "do-while" and "for" loops with examples. 5 [Group - A, Q.N. 1(c), 2068 1st Exam.] |
| (SE) | (d) | Write a program to find out whether it is an odd number or even number. 5 [Group - A, Q.N. 1(d), 2068 1st Exam.] |
| 56. | (a) | What is recursive function? Write a program to calculate the factorial of an |
| | (b) | integer using recursion. 3 + 7 [Group - A, Q.N. 2(a), 2068 1st Exam.] Define pointer. Discuss the relation between the pointer and array with |
| | al no | suitable examples. 2+8[Group - A, Q.N. 2(b), 2068 1st Exam.] |
| 57. | (a) | Write a program to open a new file and read roll-on, name, address and phone numbers of students until the user says "no", after reading the data, write it to |
| | () [| the file then display the content of the file |
| | | 10 [Group - A, Q.N. 3(a), 2068 1st Exam.] |
| | (b) | Write a program to input names of 'n' numbers of students and short them in alphabetical order. 10 [Group - A, Q.N. 3(b), 2068 1st Exam.] |
| 58. | (a) | What is an operator ? Explain different types of operators used in |
| | 0.413(0 | programming with examples. 1+4 [Group- A, Q.N.1(a), 2068 2nd Exam.] |
| iaand | (b) | Define 'Nested Loop'. Write a program to calculate and display the multiplication |
| | mecrist | table using nested loop. 2+3 [Group- A, Q.N.1(b), 2068 2nd Exam.] |
| | (c) | Write a program to find out factorial of any number. 5 [Group - A, Q.N. 1(c), 2068 2nd Exam.] |
| | (4) | What do you mean by "local", "global" and "static" variables ? Explain with |
| gan. | (d) | examples. 5 [Group – A, Q.N. 1(d), 2068 2nd Exam.] |
| E0 | (0) | What is an array ? Write down the similarities and differences of array with |
| 59. | (a) | pointer. 2+3+5 [Group - A, Q.N. 2(a), 2068 2nd Exam.] |
| Jarkos Jarkos | (p) | Write a program to read salaries of 300 employees and count the number of employees getting salary from 10,000 to 15,000. |
| TIST P | NOTE HER Note that | 10 [Group - A, Q.N. 2(b), 2068 2nd Exam.] |
| 60. | (a) | Write a program to sort an array of 'n' elements in descending order. |
| 2005 | APPE SEL | 10[Group - A, Q.N. 3(a), 2068 2nd Exam.] |
| 2005 | (b) | Write a program to enter "name", "roll-no" and "marks" of 10 students and store them in a file. Read and display the same from the file. |
| e de la companie de La companie de la companie de l | | [Group - A, Q.N. 3(b), 2068 2nd Exam.] |
| 61. | (a) | What is looping? Write a program to print first 10th terms of the following series using for loop. |
| DIST ST | uisingu | 1 5 9 13 2+3=5 [Group - A, Q.N. 1 (a), 2067] |
| 2091d | (b) | Write a recursive functions to calculate the factorial of any integer number. 5 [Group - A,Q.N. 1 (b), 2067] |
| HIL DIE | (a) | |
| PAGE., | (c) | Write a program to display all prime numbers from 1 to 100. 5 [Group - A, Q.N. 1 (c), 2067] |
| Chane | (d) | What do you mean by string manipulation? Explain about strepy and streat. 2+3=5 [Group - A, Q.N. 1 (d), 2067] |
| 62. | (a) | How do you declare an array ? Write a program to arrange the elements of an array in ascending order. 3+7=10 [Group - A, Q.N. 2 (a), 2067] |
| | (h) | What is the difference between library function and user-defined function ? |
| | | Write a program using user-defined function to calcuate y raise to ppower x. |
| | | 5+5=10 [Group - A, Q.N. 2 (b), 2067] |
| | | Differentiate between array and structure with suitable example. |
| 2084 | (c)L.M. | 10 [Group - A, Q.N. 3 (a), 2067] |

| ê12 | (b) | Write a program to delete and rename the data file | |
|----------|------------|--|---|
| | a Jahan | | roup - A, Q.N. 3 (b), 2067] |
| 64. | (a) | Write an algorithm for a program that input cost p | price (CP) and selling price |
| | SERVE | (SP) and determines whether there is gain or loss. program code. 5 [6] | Group - A, Q.N.1(a), 2066] |
| | (b) | Write a program to display the name of day on the | |
| | (0) | to 7. For example, 1 for Sunday. | |
| LTBX. | (c) | Write a program to input an integer number and c | heck whether it is prime or |
| | (0) | | Group - A, Q.N.1(c), 2066] |
| | (d) | Explain data types used in C-Programming with examples | |
| 65. | (a) | Write a program to store name and mark of 2 according with mark in descending order and displa | 0 students. Sort the data |
| | | | Group - A, Q.N.2(a), 2066] |
| Lenex! | (b) | Write a program to find the sum of 'n' integer numb | |
| T 15. H | 100 | | Group - A, Q.N.2(b), 2066] |
| 66. | (a) | Write a program to store std-no, name and mark of 'n' stu | dents in a data file. Display the |
| | al a sia | records in appropriate format reading from the file. 1 [| Group – A, Q.N.3(a), 2066] |
| max | | Differentiate array and structure with examples.10 | Group - A, Q.N.3(b), 2066] |
| 67. | | an algorithm and a flow chart for a program that c | |
| Labor. | entere | ed by user is exactly divisible by 5 but not by 11. 5 [0 | Group – A, Q.N.1(a), 2065] |
| 68. | Write a | a program that reads three numbers and displays the | |
| i mexi | 55 2113 E | | Group - A, Q.N.1(b), 2065] |
| 69. | What i | is an operator ? Explain different types of operators us | sed in programming. 2+3 Group – A, Q.N.1(c), 2065] |
| 70. | Write a | a program to read a four digit number and display it in | reverse order. 5 Group – A, Q.N.1(d), 2065] |
| 71. | Write a | | Group - A, Q.N.2(a), 2065] |
| 72. | | differences between structure and union with syntax. 10 [C | Group - A, Q.N.2(b), 2065] |
| 73. | Write | a program to enter name, roll-number and marks of | |
| Sinche. | in the | file. 10 [| Group - A, Q.N.3(a), 2065] |
| 74. | Write a | a program to enter 'n' numbers into one dimensional | |
| ture or | them is | in ascending order. 10 [| Group – A, Q.N.3(b), 2065] |
| 75. | Differe | | [Group – B, Q.N.9, 2065] |
| 76. | (a) | Differentiate between break and continue stateme | |
| OFFICE I | | program to print first 10 terms of any series using | |
| | 22 | | Group - A, Q.N. 1(a), 2064] |
| | (b) | What is an operator ? Explain assignment, Terns | ary, Comma operators with |
| J. In | det. | | Group - A, Q.N. 1(b), 2064] |
| 2002 | (c) | Write a program for reading a data file. 5 [C | aroup - A, Q.N. 1(c), 2064] |
| 3 | · (d) | Write the advantages of function. Write a recursifactorial of any integer number. 2+3 [6] | ve function to calculate the Group – A, Q.N. 1(d), 2064] |
| 77. | (a) | Describe the importances of an array. Write a pro | ogram to store ten different |
| 100 | tion of an | constant variables in any array and print out the gre | eatest number. Group – A, Q.N. 2(a), 2064] |
| | (h) | Write a program that reads different names and a | |
| | (b) | and sorts the names into alphabetical order using s | structure variables. 10 |
| | | and sorts the names into alphabetical order using s | Froun - A. Q.N. 2/h). 20641 |
| | | Write a program to delete and rename data file | |
| 70. | (a) | command. | Group - A, Q.N. 3(a), 2064] |
| | | Write a program to count the number of vowels | |
| | | | Group - A, Q.N. 3(b), 2064] |
| 11.72 | Ay C. Ph. | text. 10 [0 | 10up - A, W.N. 5(U), 2004] |

| | controlling of the many office positionally seems on the Computer Science 213 |
|----------|--|
| 79. | What are the different symbols used to construct a flow chart ? Give brief explanation |
| | along with a neat diagram. 7 [Group - B, Q.N. 11, 2063] |
| 80. | (a) What is looping? Write a C program to display the sum of 'n' terms of even |
| | 2+3 [Group - A, Q.N. 1(a), 2063] |
| | (b) Write a C program to calculate the factorial of a given number using functions. |
| 911 61 | wer art not let over a reservour deserve de reserve 5 [Group - A, Q.N. 1(b), 2063] |
| UT. | (c) What is an operator? Describe different types of operators that are included in |
| 11907 | 2+3 Group - A, Q.N. 1(c), 2063] |
| | (d) What are the differences between break and continue statement? Write a C |
| | program to print first 10 terms of the following series using FOR loop. |
| .11809 | 1, 5, 9, 13, 2+3 [Group – A, Q.N. 1(d), 2063] |
| 81. | (a) What is an array ? Write a C program to sort integer values in descending |
| unit o | order. 2+8 [Group – A, Q.N. 2(a), 2063] |
| | (b) Write a C program to read age of 40 students and count the number of |
| | students of the age between 15 and 22. 10 Group - A, Q.N. 2(b), 2063] |
| 82. | (a) Differentiate between structures and pointers with examples. 10 |
| | Group - A, Q.N. 3(a), 2063] |
| | (b) Write a C program design a menubase system which has the following |
| * | features: as usospan ed live swipus a ni 80 nert each hair. |
| sift n | (i) Appending record (ii) Reading record |
| [17005] | (iii) Delete record (iv) Quit [Group - A, Q.N. 3(b), 2063] |
| 83: | (a) Write a C Program to print the 10 positive integers and their factorials. |
| [0905 | 8.N.O. 8 - quot 0]4+8 [Group - A, Q.N. 1(a), 2062] |
| | (b) Differentiate between while and Do while loop with suitable examples. |
| | igmet many im mumicam lagative valuates one (et 5 [Group - A, Q.N. 1(b), 2062] |
| 90219 | (c) For any integer input through the keyboard, write a C Program to find out |
| nanz, | whether it is an odd number or even number. 5[Group - A, Q.N. 1(c), 2062] |
| | (d) Write a C Program to input 'n' numbers and find out greatest and smallest |
| | 5 [Group - A, Q.N. 1(d), 2062] |
| | (a) Draw a flowchart and write a C Program to read in a positive integer less than |
| 0.002 | 20 and display its multiplication table. 10[Group - A, Q.N. 2(a), 2062] |
| ENINA | (b) Write a C Program to input names of 'n' numbers of students and sort them in |
| Indus | alphabetical order. 10 [Group - A, Q.N. 2(b), 2062] |
| 85. | Write an algorithm and C Program to read salaries of 200 employees and count the |
| Post of | number of employees getting salary between 5,000 – 10,000. |
| D. (0.4) | S herb work wasto of beau storings and Lorin S good thin [Group - A, Q.N. 3(a), 2062] |
| 86.09 | Write a C Program that will read successive records from the new data file and display |
| enub | and an the assess is an appropriate format 10/Group A O N 3/h) 20621 |
| 87. | Describe the limitation of using getchar and putchar functions for reading strings. 7 |
| | 3.8 (A) [Group - B, Q.N. 9, 2062] |
| 88. | Write a program that reads different names and addresses into the computer and |
| 00. | rearrange the names into alphabetical order using the structure variables. |
| | deat some the names into appropriate force using the structure and the second second the second seco |
| D. THE | the formula flower many case of a basic of classical many and the many many for the first of the contract of t |
| 89. | Describe either in flowchart or algorithm the steps required to display the multiplication |
| 957/16 | table of a series of given numbers (entered by the user). Convert this flowchart or algorithm into program code of any of the 4GL or HLL of your choice. The program |
| bns i | should use the 'For' looping structure in calculating and displaying the multiplication |
| BYNE 6 | table 20 [Group - A O N 1/h)Or 20611 |
| D8 | table. 20 [Group – A, Q.N.1(b)Or, 2061] |
| | |

| 90. | Write a program using C language to read the age of 100 persons and count the number of persons in the age group between 50 and 60. Use "For" and "Continue" |
|---------|---|
| | statements. 10 [Group – A, Q.N.2(a), 2061] |
| 91. | Differentiate between while and do while loop. What are the advantages of object oriented programming over structured programming? 5+5[Group - A, Q.N.2(b), 2061] |
| 92. | Write a program using C language that reads successive records from the new data file |
| niles: | and display each record on the screen in an appropriate format. |
| 1.200 | [Group – A, Q.N.3(a), 2061] |
| 93. | What is pointer? Explain the meaning of each of the following declarations: 2.5+7.5 (i) int*p; (ii) int*p [10]; |
| 18000 | (iii) int (*p) [10]; (iv) int *p [void]; |
| prior | (v) int *P(char *a); [Group - A, Q.N.3(b), 2061] |
| 94. | Differentiate between array and structure. 7 [Group – B, Q.N.10, 2061] |
| 95. | The marks obtained by a student in 7 different subjects are entered through the |
| | keyboard. The student gets a division as per the following rules: |
| | Percentage greater or equal to 60 First division Percentage between 45 and 59 Second division |
| - 363.5 | r crocinago between 45 ana 55 |
| - Marin | Percentage between 35 and 44 Third division |
| Sir . | Percentage less than 35 |
| | Mark less than 35 in a subject will be declared as |
| [Stark | Write a program using C language to process result of all students based on the specification state above. [Group – A, Q.N.1(a), 2061] |
| 96. | What do you mean by program algorithm ? Explain the aims of program design and |
| 30. | building blocks of a structured programming. 3+4[Group - B, Q.N.8, 2060] |
| 07 | Write a program to store Kathmandu valley's 7 days maximum and minimum |
| 97. | |
| too b | temperature (in centigrade) and calculate average, maximum, minimum temperature |
| | using function and print 7 days temperature, maximum minimum and average |
| 00 | temperature using any high level programming language.12[Group - A, Q.N.2(a)., 206 |
| 98. | Write a programme to input a message from keyboard and display the menu. 5×4=20 |
| 7,00% | 1. Print the message length in terms characters. [Group - A, Q.N.3(a)., 2060] |
| | Print the message in reverse order. [Group – A, Q.N.3(b)., 2060] |
| 208:23 | 3. Print the message in capital letters. [Group - A, Q.N.3(c)., 2060] |
| Take! | Copy the message from one location of screen to another location. |
| SUGE | [Group - A, Q.N.3(d)., 2060] |
| 99. | Differentiate between internet and intranet. Explain the term Normalization in terms of |
| 41 | database design. 5+2 [Group - B, Q.N.7., 2059] |
| 100. | What is Program Logic? What are different tools to explain the logic and design of a |
| | program ? What is infinite loop ? What are symbols used to draw a flow chart ? |
| | 1+3+1+2 [Group - B, Q.N.12., 2059] |
| 101. | What are Logical Operators ? Give two examples of their use. Compared to procedure- |
| 7 | oriented programing what advantages does event-driven programming offer? 3+4 |
| 22852 | II. H. O. (8) |
| 102. | Describe either in flowchart or algorithm form the steps required to display the |
| 102. | multiplication table of a given number (inputted by the user). Convert this |
| | flowchart/algorithm into program code of the 4GL or HLL of your choice. The program |
| | should use the 'FOR' looping structure to calculate and display the multiplication table. |
| 000 | 10+10 [Q.N. A.2., 2058] |
| 102 | |
| 103. | A higher secondary school has asked you to write a HLL program to help them analyze their class test scores. The program must first ask for the number of students 'n' and |
| | |

should have a looping structure that loops through 'n' times to accept, validate and store the data in an array. The structure for each student is given below: 20

| Fie | eld Name | Field Type | Size | Validation Rules |
|------|------------------|---------------|------------|------------------|
| | Dug€ – guo, C | roll . | numeric | 2.0 1-99 |
| | | name | alphabetic | 25.0 |
| 13/2 | ,11,6 -8 - quori | marks | numeric | 2.1 0.0-10.0 |
| | 1 M.O. S - CLO | The program i | must. | spentasdoi to. |

Print out the data for students who have failed (obtained marks <4.0) (a)

(b) Print out the data for students scoring more than 7.9.

104.

IQ.N. A.3., 20581 (c) Print out the average class mark. Write an algorithm and draw a flowchart to enter names of the students and ages of 10

different students in arrays, then arrange them in descending order according to the [Group - A , Q.N. 2, 2057] age and print them.

An organization has 5 stores and it deals in items. The stock position of these items is 105. shown below.

| | Item 1 | Item 2 | Item 3 | Item 4 |
|---------|--------|--------|--------|--------|
| Store 1 | 30 | 35 | 0 | 40 |
| Store 2 | 20 | 0 | 25 | 0 |
| Store 3 | 80 | 175 | 25 | 35 |
| Store 4 | 0 | 21 | 32 | 2800 |
| Store 5 | 10 | 80 | 15 | 40 |

Develop a computer program in any of the high level language you are taught in your class, to input this table and to indicate the items that are completely out of stock at store i, where the value of i may be input from the keyboard.

Your program should also calculate the total stock of each item in the organization and

| 6990 | also the stock in store number 5. | [Group – A , Q.N. 3, 2057] | | | |
|---------|--|------------------------------|--|--|--|
| | Unit 5: Object-Oriented Programn | ning (OOP) | | | |
| 1. | What is OOP? List the characteristics of OOP. | 1+4 [Q.N.12, 2072'D'] | | | |
| 2. | Explain the terms polymorphism and inheritance. | 5 [Q.N.14, Supp. 2071] | | | |
| 3. | What is OOP? List the advantages of OOP. | 1+4=5 [Q.N. 12, 2071] | | | |
| 4. | What is OOP ? List out the advantages of OOP. | 1+4 [Q.N.12, 2070 'Supp'] | | | |
| 5. | What is procedural oriented programming? Explain. | 5 [Q.N. 12, 2070 'C'] | | | |
| 6. | Explain polymorphism and inheritance with examples. | 2.5+2.5 [Q.N. 11, 2070 'D'] | | | |
| 7. | Explain the elements of OOP. | 5 [Q.N. 14, Supp. 2069] | | | |
| 8. | Write the advantages and disadvantages of OOP. | 5 [Q.N. 14, 2069] | | | |
| 9. | What is object-oriented programming ? How it is different from the procedure oriented | | | | |
| 15,41 | programming ? 2+5 [Group | - B, Q.N. 5, 2068 1st Exam.] | | | |
| 10. | Why polymorphism and inheritance are important conce | ots of OOP ? Explain. 7 | | | |
| | NGD2 AT M.D) is stoment over elbumin(Group | - B, Q.N.6, 2068 2nd Exam.] | | | |
| 11. | Explain the terms polymorphism and inheritance. | 7 [Group - B, Q.N. 9, 2067] | | | |
| 12. | Define the terms polymorphism and inheritance with exa | | | | |
| 910 | medial trafts for solvestion areas. This time stall | [Group - B, Q.N.8, 2065] | | | |
| 13. | Explain the terms polymorphism and inheritance in terms of OOI | Ps. 4[Group-B,Q.N. 5,2064] | | | |
| 14. | Explain the terms Polymorphism and Inheritance. | 7[Group - B, Q.N. 5, 2063] | | | |
| 15. | Why polymorphism and inheritance are important concept | ots of OOP ? Explain. | | | |
| | the Market Charles of the Control of | 7 [Group - B, Q.N. 8, 2062] | | | |
| 16. | Explain the terms Polymorphism and Inheritance. | 7[Group - B, Q.N.11, 2061] | | | |
| 17. | In event driven programming what are event handeler | | | | |
| ALC: NO | F - 3 | | | | |

5+2 [Group - B, Q.N.10., 2059] Name the tools that are used in program design. Polymorphism and Inheritance are important concepts of OOP. What do you understand by there two terms?

2+5 [Q.N. B.5., 2058]

| 216 Class XII (Humanities) : Chapter-wise Question Collection with Syllabus | 216 | Class XII | (Humanities) | : Chapter-wise | Question | Collection | with Syllabus |
|---|-----|-----------|--------------|----------------|----------|------------|---------------|
|---|-----|-----------|--------------|----------------|----------|------------|---------------|

What is object-oriented programming? How is it different from the procedure oriented 19. [Group - B . Q.N. 8, 2057] programming.

20. Write short notes on:

> (a) Polymorphism (b) Inheritance

[Group - B. Q.N.6(c), 2060] [Group - B, Q.N.12(b), 2066]

Unit 6: Information Communication Technology and Cyber Law

Describe computer crime and it's various forms. 1+4 [Q.N. 12, 2070 'D'] 1.

5 [Q.N. 13, Supp. 2069] What are the advantages of ICT? Explain. 2 Define computer crime and its various forms. 5 [Group - B. Q.N. 13, 2069]

3. Explain about the importance of computer security in this knowledge based society. 4

[Group - B. Q.N.8, 2066]

What do you mean by IT? Explain the advantages and disadvantages of IT. 5.

2+5 [Group - B, Q.N. 10, 2062]

Write short notes on: 6.

(a) Computer crime

[Q.N.15(a), 2072'C'] [Q.N.15(b), 2072'C']

(b) Social impact of the ICT.

(c) Digital divide and social impact of ICT. 2.5+2.5=5 [Q.N.13, Supp. 2071]

(d) Cyber law.

[Group - A, Q.N. 12(b), 2068 2nd Exam.]

(e) Cyber law. (f) Cyber law

[Group - B, Q.N.12(a), 2065] [Group - B. Q.N. 12(a), 2064]

(g) Cyber Law

[Group - B, Q.N. 7(c), 2062]

(h) Cyber Law

[Group - B. Q.N.8(a), 2061]

Unit 7: Multimedia

Describe any five application of multimedia. 5[Q.N.14, 2072'C']

What is multimedia? List out the components of multimedia. 1+4[Q.N.13, 2072'D']

Define multimedia. List the advantages and disadvantages of multimedia.

1+4 [Q.N.12, Supp. 2071] 5 [Q.N. 14, 2071]

Describe the advantages of multimedia. What is multimedia? List out the advantages of multimedia system.

1+4 [Q.N.13, 2070 'Supp'] 5 [Q.N. 14, 2070 'C']

What are the components of multimedia? Explain. List out the advantages and disadvantages of multimedia

5 [Q.N. 13, 2070 'D']

8. Explain the application of multimedia with examples.

5 [Q.N. 12, Supp. 2069]

9. What is multimedia? What are the components of multimedia? List out.

1+4

Define the term multimedia. Explain the application areas of multimedia.

[Q.N. 12, 2069] 2+5

[Group - B, Q.N. 9, 2063]

11. What is multimedia? What are the hardware devices required by a personal computer to make it 'multimedia capable'? 1+2 [Q.N. B.7., 2058]

Unit 8: Artificial Intelligence

5[Q.N.14, 2072'D'] 1. Describe applications of Al. What is expert system? Explain the field of expert system. 1+4 [Q.N.11 (or), Supp. 2071]

5 [Q.N. 13, 2071] Describe the application areas of Al.

1+4 [Q.N.14, 2070 'Supp'] 4. What is Al ? Explain the application areas of Al.

| | | Computer Science 217 |
|----------|--|---------------------------------|
| 5. | What is Al? Explain the application areas of Al. | 1+4 [Q.N. 13, 2070 'C'] |
| 6. | Explain the uses of robotics system with example. | [Q.N. 11 (or), Supp. 2069] |
| 7. | What is Al? Describe the applications of Al. | [Q.N. 11 (or), 2069] |
| 8. | What do you understand by Al ? How it affects the mo | dern society? |
| | | p - B, Q.N.11, 2068 2nd Exam.] |
| 9. | What do you understand by Al ? How it affects the soc | |
| | Andrew Committee of Andrew Committee of the Committee of | [Group - B, Q.N. 5, 2064] |
| 10. | What is computer animation? How is it used in film ma | aking industry ? 2+5 |
| | | [Group - B, Q.N. 7, 2064] |
| 11. | What do you understand by AI ? How it effects the more | dern society? 3+4 |
| | u refresidum (Artistisaioneo Ixes refin, Licitur, sur us a r | [Group - B, Q.N. 12, 2061] |
| 12. | What do you understand by Al ? How it may affect | |
| | | +2+3 [Group - B, Q.N.8., 2059] |
| 13. | Who does an Al application work ? Can a computer re- | ally think with the aid of |
| | Al? | [Group - B , Q.N. 7, 2057] |
| 14. | What is computer animation ? How is it used on one fil | m making industry ? |
| | . Troops of the east of the house is not the control of the contro | [Group - B , Q.N. 9, 2057] |
| 15. | Write short notes on: | MATERIAL INTERNATION |
| (a) E) | coert System | [Q.N.15(a), 2072'D'] |
| | (b) Expert system | [Q.N. 15 (b), 2070 'D'] |
| - Marie | (c) Application of Al | [Group - B, Q.N.6(b), 2060] |
| | Unit 9: Contemporary Tech | nology |
| 1 | What is E government? List out the philations of E gov | omence 1.400 N 49 00701011 |
| | What is E-governance? List out the objectives of E-gov | |
| 2. 3. | What is e-governance ? List the importance of e-govern | |
| | List out the advantages and disadvantages of e-busine | ss. 5 [Q.N.15, 2070 Supp] |
| 4. 5. | What are the objectives of e-governance? Explain. | 5 [Q.N. 14, 2070 D] |
| J. | What are the key challenges of implementing e-gove | |
| 6. | like Nepal? | 5 [Q.N. 11, Supp. 2069] |
| | What are the key challenges of implementing e-govern | ance in developing countries? 5 |
| 7. mc | termine his leppered those for the lepter | |
| I and | What is Internet ? Explain the uses of internet in busine | |
| | Differentiate between latement and introduct with a liteble | 5=7 [Group - B, Q.N. 10, 2067] |
| 8. | Differentiate between Internet and intranet with suitable | |
| 0 | What is E commerce 2 Write impact of E commerce to | [Group - B, Q.N.7, 2065] |
| 9. | What is E-commerce ? Write impact of E-commerce te | |
| 10 | What do you man by to promote 10 Distinguish but | 3+4 [Group - B, Q.N. 11, 2060] |
| 10. | What do you mean by 'e-commerce' ? Distinguish between | |
| | and Internet ? | 2+2 [Q.N. B.7., 2058] |
| 11. | Write short notes on: | Facilyala |
| (a) | E-learning. | [Q.N.15(b), 2072'D'] |
| | (b) E-commerce | [Q.N. 15. (a), 2071] |
| | HTM/o/10) E loorning | TO 11 45 (1) 0070 1017 |

Unit 10: Final Project Work

[Q.N. 15. (i), 2070 'C']

[Group - B Q.N,12(a),2068 1st Exam.]

[Group – B, Q.N. 12(iii), 2063 Group – B, Q.N.12(a), 2066] [Group – B, Q.N.6(a), 2060]

2+5=7 [Group - B, Q.N. 7 (b), 2067]

(b) (c) (d)

(e)

(f)

(g)

E-learning e-commerce.

E-commerce

E-commerce

Internet