

**For Candidates Admitted From 2015-2017**

2015-17 BIT 42C ROLL NO.....  
B.Sc. DEGREE EXAMINATIONS, APRIL 2019  
SEMESTER – IV INFORMATION TECHNOLOGY  
COMPUTER NETWORKS

Time: 3 Hrs Max. Marks: 75

**PART - A ( 10 X 2 =20)**  
**ANSWER ALL QUESTIONS**

1. What is Computer Networks?
2. Mention the seven layers of OSI model.
3. List out the various physical medium used for data transmission.
4. Expand CDMA and its uses.
5. What are the services provided to the network layer?
6. Define protocol.
7. State any two design issues of network layer.
8. Represent the type of shortest path routing algorithm.
9. What are the elements of transport protocols?
10. Write down the real applications of application layer.

**PART - B ( 5 X 5 =25)**  
**ANSWER ALL QUESTIONS**

11. a) Mention the uses of Computer Networks.  
(or)  
b) Differentiate LAN and WAN.
12. a) How to define the structure of telephone system?  
(or)  
b) Write a note on Wireless transmission.
13. a) What is character stuffing? Explain it with suitable example.  
(or)  
b) Give short note on Carrier sense multiple access protocols.
14. a) Mention the basic requirements of network layer. Explain any two of them.  
(or)

- b) Discuss the concept of Internetworking.
15. a) What are the primitives for a simple transport service?  
(or)  
b) Mention the role of DNS and its process with example

**PART - C ( 3 X 10 =30)**  
**ANSWER ANY THREE QUESTIONS**

16. Describe the layers, protocols and interface of network software.
17. Discuss about Guided transmission media.
18. Illustrate the concept of sliding window protocol.
19. Explain the concept of routing for mobile hosts in detail.
20. Mention the basics functions of Electronic mail. Explain all of them.

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18. Calculate the mean and standard deviation for the following data.

|           |        |       |       |       |       |       |
|-----------|--------|-------|-------|-------|-------|-------|
| Class     | : 5-10 | 10-15 | 15-20 | 20-25 | 25-30 | 30-35 |
| Frequency | : 2    | 9     | 29    | 54    | 11    | 6     |

19. Calculate the Karl Pearson Coefficient skewness from the following data.

|    |     |      |       |       |       |       |       |       |
|----|-----|------|-------|-------|-------|-------|-------|-------|
| x: | 0-5 | 5-10 | 10-15 | 15-20 | 20-25 | 25-30 | 30-35 | 35-40 |
| f: | 2   | 5    | 7     | 13    | 21    | 16    | 8     | 3     |

20. Find the regression equation from the following data:

|    |    |    |    |    |    |    |    |    |    |    |
|----|----|----|----|----|----|----|----|----|----|----|
| x: | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 |
| f: | 17 | 17 | 18 | 18 | 19 | 19 | 19 | 20 | 21 | 22 |

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For Candidates Admitted From 2018

2018 BIT 24A

ROLL NO.....

B.Sc. DEGREE EXAMINATIONS, APRIL 2019  
SEMESTER - II INFORMATION TECHNOLOGY  
COMPUTER ORIENTED NUMERICAL AND STATISTICAL  
METHODS

Time: 3 Hrs

Max. Marks: 75

PART - A ( 10 X 2 =20)  
ANSWER ALL QUESTIONS

1. Define Iteration method.
2. Write the formula for Newton - Raphson method.
3. What is Trapezoidal rule?
4. Write the formula for Lagrange's Interpolation formula.
5. What do you mean by median?
6. What is Range?
7. What is the rank correlation?
8. Write the formula for correlation coefficient .
9. Define Linear regression.
10. Write the two equation of regression Co-efficient.

PART - B ( 5 X 5 =25)  
ANSWER ALL QUESTIONS

11. a. Solve  $x^3 = 2x + 5$  for the positive root by iteration method.  
(or)  
b. Using Newton's method , find the root between 0 and 1 of  $x^3 - 6x + 4 = 0$  correct to 5 decimal places.
12. a. Using Lagrange's formula of interpolation Find  $y(9.5)$  given that  
x : 7 8 9 10  
y : 3 1 1 9  
(or)

b ..Evaluate using Trapezoidal  $\int_0^1 \frac{1}{1+x^2} dx, h = 0.2$

13. a. Calculate the Median from the following data:

x : 14 16 18 20 22 24 26  
f : 2 4 5 3 2 1 4

(or)

- b. Calculate the mean deviation from the following data:

x : 10 12 14 16 18  
f : 5 9 10 9 7

14. a. Calculate the Rank correlation coefficient from the following data:

x : 39 65 62 90 82 75 25 98 36 78  
f : 47 53 58 86 62 68 60 91 51 84

(or)

- b. Explain the types of correlation coefficient.

15. a. Explain the properties of Regression co-efficient.

(or)

- b. Given the following data. Calculate the expected value of y when  $x = 2$ .

|         | X      | Y    |
|---------|--------|------|
| Average | 7.6    | 14.8 |
| S.D     | 3.6    | 2.5  |
| r       | = 0.99 |      |

PART - C ( 3 X 10 = 30)

ANSWER ANY THREE QUESTIONS

16. Solve by Gauss Elimination method.

$$3x + 4y + 5z = 18$$

$$2x - y + 8z = 13$$

$$5x - 2y + 7z = 20$$

17. The population of a town is as follows

year (x) : 1941 1951 1961 1971 1981 1991  
population (y) : 20 24 29 36 46 51  
Estimate the population during the period 1946 to 1976.

P.T.O

**For Candidates Admitted From 2015-2017**

2015-17 BIT 44A

ROLL NO.....

B.Sc. DEGREE EXAMINATIONS, APRIL 2019

SEMESTER - IV INFORMATION TECHNOLOGY

ALLIED : COMPUTER SYSTEM ARCHITECTURE

Time: 3 Hrs

Max. Marks: 75

**PART - A ( 10 X 2 =20)**

**ANSWER ALL THE QUESTIONS**

1. Define micro operation.
2. List the types of shift micro operation.
3. Define instruction code.
4. Mention the purpose of micro program sequencer.
5. List out the phases of instruction cycle.
6. Mention the bits of status register and its purpose.
7. What are peripheral devices?
8. What is handshaking?
9. How the performance of the CPU is measured?
10. List the types of mapping process.

**PART B ( 5 X 5 = 25)**

**ANSWER ALL THE QUESTIONS**

11. (a) Explain in brief about logic micro operation with a neat diagram.  
(or)  
(b) Write a short note on arithmetic logic shift unit with a neat diagram.
12. (a) Write a brief note on computer registers.  
(or)  
(b) Explain the purpose of control memory.
13. (a) Explain briefly about instruction formats with examples.  
(or)  
(b) Write a short note on RISC characteristics.
14. (a) Write short note on multiplication of floating binary numbers with example.  
(or)  
(b) Explain the various modes of data transfer.
15. (a) Write short note on direct mapping.  
(or)  
(b) Briefly explain about cross bar switch.

**PART - C ( 3 X 10 = 30)**

**ANSWER ANY THREE QUESTIONS**

16. Explain about arithmetic microoperation in detail.
17. Explain in detail about instruction cycle.
18. Discuss in detail about stack.
19. Discuss direct memory access in detail with diagram.
20. Explain in detail about main memory with neat diagram.

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**For Candidates Admitted From 2015-2017**

2015-17 BIT 6EL

ROLL NO.....

B.A./B.Sc./B.Com./BBA/B.Com CA/BBA

DEGREE EXAMINATIONS, APRIL 2019

SEMESTER – VI INFORMATION TECHNOLOGY  
INFORMATION TECHNOLOGY - II

Time: 3 Hrs

Max. Marks: 75

**PART - A (10 X 2 = 20)**  
**ANSWER ALL QUESTIONS**

1. Define Algorithm.
2. What is record?
3. List any four windows accessories,
4. What is text?
5. List any four options in edit menu.
6. What is table?
7. Write about MS Excel.
8. Define chart.
9. What is Email?
10. List any four browsers.

**PART B (5 X 5 = 25)**  
**ANSWER ALL QUESTIONS**

11. (a) Write in detail about flow chart.  
(or)  
(b) What are the requirements for problem testing?
12. (a) How will you resize a window? Explain.  
(or)  
(b) Write short note on menu bar.
13. (a) Write short note on mail merge.  
(or)  
(b) Explain editing documents in MS word.
14. (a) Explain about spreadsheet.  
(or)

- (b) Explain about printing a worksheet.
15. (a) Write short note on World Wide Web.  
(or)  
(b) Write the detail about system life cycle.

**PART - C (3 X 10 = 30)**  
**ANSWER ANY THREE QUESTIONS**

16. Explain in detail about file processing.
17. Discuss in detail about finding and replacing text.
18. How to create a table in MS word? Explain.
19. Explain formatting worksheet in MS Excel.
20. Describe internet in detail.

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**For Candidates Admitted From 2015-2017**

2015 BIT 46S

ROLL NO.....

B.Sc. DEGREE EXAMINATIONS, APRIL 2019

SEMESTER – IV INFORMATION TECHNOLOGY  
SBS : MICROPROCESSOR AND ASSEMBLY LANGUAGE  
PROGRAMMING

Time: 3 Hrs

Max. Marks: 75

**PART - A ( 10 X 2 =20)**

**ANSWER ALL QUESTIONS**

1. Mentions the name of various registers in 8085 along with its size.
2. What are the steps to be followed to fetch an instruction from memory locations?
3. List the various instructions that can be used to clear Accumulator.
4. Define Macro with an example.
5. What is the value of Accumulator after execution of the following segment  
MVI A, 45  
MOV B, A  
STC  
RAR  
XRA B
6. Explain the difference between following 8085 instructions.  
DAD and DAA
7. What is the use of mode 2 in 8255A PPI?
8. What are predefined interrupts in Intel 8085?
9. What is the use of PIC 8259?
10. How the 8251 is programmed?

**PART - B (5 X 5 =25)**

**ANSWER ALL THE QUESTIONS**

- I I. (a) Draw the pin configuration and functional pin diagram of 8085 and explain each pin.  
(or)  
(b) Explain the steps and the timing of a data flow when the instruction

code 0100 1111(4FH- MOV C,A) stored in location 2005H is being fetched in 8085.

12. (a) List the various addressing modes supported by 8085 with two examples for each and explain their usage.  
(or)  
(b) Write an 8085 program to store the status of flags S,Z,A,C,P and Cy as 00h(FFh) if they are reset(set) in five memory locations from 1000h.
13. (a) Write an 8085 ALP to perform Division of two 8-bit numbers.  
(or)  
(b) Write 8085 ALP to SORT an array of number in Descending order.
14. (a) Explain the schemes of address space partitioning.  
(or)  
(b) Enumerate the specification of memory and I/O interfacing.
15. (a) Discuss in detail about DMA controller and explain its operations.  
(or)  
(b) Compare Asynchronous Serial Communication with synchronous Communication. Draw the command instruction format of 8251 and explain it.

**PART -C (3 X 10 =30)**

**ANSWER ANY THREE QUESTIONS**

16. Draw the architecture of 8085 and explain its various functional blocks.
17. Explain how the instruction set of Intel 8085 is classified and list the instructions in each group.
18. Write an 8085 ALP to perform (i) addition (ii) Subtraction of two 16-bit numbers.
19. Draw the internal architecture of 8255 programmable peripheral interface chip in a block diagram and explain.
20. Discuss, with suitable examples, various priority modes of programmable interrupt controller 8259.

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**For Candidates Admitted From 2015-2017**

2015-17 BIT 62C

ROLL NO.....

B.Sc. DEGREE EXAMINATIONS, APRIL 2019

SEMESTER – VI INFORMATION TECHNOLOGY  
MOBILE COMPUTING

Time: 3 Hrs

Max. Marks: 75

**PART - A ( 10 X 2 =20)**  
**ANSWER ALL QUESTIONS**

1. What is Mobile Computing?
2. What is role of IETF?
3. Write about Policy Manager.
4. Define the term of GPS.
5. Write about Voice XML.
6. Define Java Card.
7. Write about Base Station System.
8. What is meant by SMS?
9. Define the term of GSM.
10. Write usage of Operation and Support Subsystem.

**PART - B ( 5 X 5 = 25)**  
**ANSWER ALL QUESTIONS**

11. (a) Explain the various types of Networks.  
(or)  
(b) How to develop Mobile Computer Application? Discuss
12. (a) Discuss on Client Context Manager.  
(or)  
(b) How to make exiting applications mobile enabled? Explain of them.
13. (a) Discuss on Satellite Communication Systems.  
(or)  
(b) Write detail about Wireless Broadband and Mobile IP.

14. (a) Discuss on Value Added Services through SMS.  
(or)  
(b) Bring out Applications of GPRS.
15. (a) Write detail about Mobility Management.  
(or)  
(b) How is PLMN connected to PSTN and PDN? Discuss.

**PART - C ( 3 X 10 = 30)**  
**ANSWER ANY THREE QUESTIONS**

16. Explain Schematic Representation of a Mobile Computing Environment
17. Elaborate about Three-tier architecture for Mobile Computing.
18. Exemplify Time Division Multiple Access.
19. Draw a neat diagram and explain GPRS Network architecture.
20. Describe the GSM architecture its constituent elements.

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- (b) Define a friend function. Explain the relation of friend function with respect to public, private and protected data members of the class.
14. (a) Explain an abstract class? How do you create an abstract class? What is the purpose of creating an abstract class in object oriented programming paradigm? Explain with the help of an example.  
(or)
- (b) What is runtime polymorphism? How virtual functions can be used to implement the runtime polymorphism? Explain with an example.
15. (a) Write a C++ program that reads a text file a.dat and creates another file b. dat that is identical except that every sequence of consecutive blank spaces is replaced by a single space.  
(or)
- (b) Explain exception handling and exception handling mechanism.

**PART C (3 X 10 =30)**

**ANSWER ANY THREE QUESTIONS**

16. Discuss various looping statements provided in C++? Explain their syntax with example.
17. Create a class Employee, include Emp.no, Emp-name, Basic-Salary, DA, HRA, Conveyance and Medical as data members. Include member functions to accomplish the following:
- (i) Accept Emp-no,Emp-name and Basic - salary from the user.
  - (ii) Calculate DA as 50% of basic salary and HRA as 30% of Basic salary
  - (iii) Initialize conveyance and medical to Rs. 2000/- and Rs. 1000/- respectively, whenever on object is created.
  - (iv) Count the number of objects created.
  - (v) Display the data of all employees entered and the gross salary computed as sum of the Basic Salary, DA, HRA ,Conveyance and Medical. Write the appropriate main function for the above.
18. Explain the various forms of inheritance supported by C++. Give an example for each.

19. Explain the following with the help of examples: (i) this Pointer  
i) Scope Resolution Operator (::) (iii) Information Hiding
20. How can a random access file is defined and processed? Explain with example.

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**For Candidates Admitted From 2018 -**

2018 BIT 23C

ROLL NO.....

B.Sc. DEGREE EXAMINATIONS, APRIL 2019

SEMESTER – II INFORMATION TECHNOLOGY

OBJECT ORIENTED PROGRAMMING WITH C++

Time: 3 Hrs

Max. Marks: 75

**PART - A ( 10 X 2 =20)**

**ANSWER ALL QUESTIONS**

1. Give the general syntax of switch statement with an example.
2. Write some situations where inline expansion may not work.
3. Define class and object with an example.
4. What are the characteristics of static members of a class?
5. What are the operators that cannot be overloaded? Why?
6. Define typing conversions.
7. Difference between static binding and late binding.
8. How to create a dynamic array of pointer (to integers) of size 10 using new in C++?
9. List any four file modes and their purpose.
10. What are the tasks to be performed by error handling code?

**PART - B (5 X 5 =25)**

**ANSWER ALL THE QUESTIONS**

11. (a) For each of the statements labeled (i), (ii), (iii) and (iv), point out the errors, if any. If there is no error in a statement, indicate its effect.

Class base

```
{
    int i;
    public:
    void set_i(int num) {i=num;}
    int get_i() { return i;}
```

```
}
Class derived : public base
{
    int j;
    public :
    void set_j(int num){j=num;}
    int get_j() {return j;}
}
void main()
{
    base * bp;
    derived d;
    bp = &d;
    bp → set_i (10);          (i)
    bp → set_j(20);          (ii)
    cout << bp → get_i();    (iii)
    cout << bp → get_j();    (iv)
}
```

(or)

- (b) Discuss three ways C++ supports in formatted console I/O operations.
12. (a) What is function overloading? Write a C++ program to overload Sum function for finding the sum of two integer values and two real numbers.
- (or)
- (b) Explain about constructor with an example.
13. (a) List the operators that cannot be overloaded. Define a complete class by name distance with feet and inches as data members and overload += operator to add two objects.
- (or)

**For Candidates Admitted From 2015-2017**

2015-17 BIT 61C ROLL NO.....  
B.Sc. DEGREE EXAMINATIONS, APRIL 2019  
SEMESTER – VI INFORMATION TECHNOLOGY  
SCRIPTING TOOLS

Time: 3 Hrs

Max. Marks: 75

**PART - A ( 10 X 2 =20)**  
**ANSWER ALL QUESTIONS**

1. What does PHP stand for?
2. Define-operator.
3. Must a control structure's test expression result in a Boolean value?
4. How do you create a while statement that increments through and prints every odd number between 1 and 49?
5. What is inheritance?
6. Define class.
7. Mention the use of session function.
8. What is cookies?
9. Give the role of exec() function.
10. Which is the statements used to create a table?

**PART - B ( 5 X 5 =25)**  
**ANSWER ALL QUESTIONS**

11. a) What is the common assignment operators used in PHP? Explain.  
(or)  
b) Explain the PHP variables with examples.
12. a) Describe the For. .... each loop in PHP.  
(or)  
b) Explain the types of array in PHP with scripting examples.
13. a) Describe PHP string functions.  
(or)  
b) Discuss the date and time function in PHP.

14. a) How to combine PHP and HTML in single page? Explain.  
(or)

- b) What are the steps to file uploading in PHP?
15. a) How to draw new image in PHP? Explain.  
(or)  
b) Elaborate on the MYSQL with query examples.

**PART - C ( 3 X 10 =30)**  
**ANSWER ANY THREE QUESTIONS**

16. Discuss Data types in PHP and how to changing type by casting.
17. Explain the PHP functions in detail.
18. Elaborate on class and object. How to construct classes in PHP.
19. How to setting the cookies with PHP? Explain.
20. Explain the PHP file and Directory methods

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**For Candidates Admitted From 2015-2017**

2015-17 BIT 41C ROLL NO.....  
B.Sc. DEGREE EXAMINATIONS, APRIL 2019  
SEMESTER – IV INFORMATION TECHNOLOGY  
SOFTWARE ENGINEERING

Time: 3 Hrs

Max. Marks: 75

**PART - A ( 10 X 2 =20)**

**ANSWER ALL QUESTIONS**

1. What do you understand by software engineering?
2. What are webapps?
3. What do QFD and JAD stand for? .
4. What is meant by data dictionary?
5. What is abstraction? What are its types?
6. What is cohesion?
7. List down the activities conducted during architectural design.
8. What is software testing?
9. What is debugging?
10. What is reverse engineering?

**PART - B ( 5 X 5 =25)**

**ANSWER ALL QUESTIONS**

11. a) What are the five generic process framework activities involved in software Engineering? Explain.  
(or)  
b) How does the Spiral model help us in developing a complete version of a software? Explain.
12. a) What constitutes an analysis model? Explain.  
(or)  
b) Narrate on the concepts of data modeling.
13. a) Explain the steps involved in designing an Object Oriented Systems.  
(or)  
b) Explain the different classes of coupling used in software design.

14. a) What is an interface? What are the golden rules for designing an efficient interface? Explain.

(or)

- b) How do we define the equivalence classes for software testing? Explain.

15. a) What is unit testing? What are the unit test considerations? What are the errors commonly found during unit testing?

(or)

- b) Write a note on FURPS quality attributes.

**PART - C (3 X 10 = 30)**

**ANSWER ANY THREE QUESTIONS**

16. What is a process model? Explain the different phases of software development process through Water fall model in detail.
17. Elucidate the steps involved in requirements engineering process.
18. Write an essay on software design fundamentals.
19. Explain the basis path testing in detail.
20. Give an account on CASE.

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For Candidates Admitted From 2015-2017

2015 BIT 65S

ROLL NO.....

B.Sc. DEGREE EXAMINATIONS, APRIL 2019  
SEMESTER – VI INFORMATION TECHNOLOGY  
SOFTWARE PROJECT MANAGEMENT

Time: 3 Hrs

Max. Marks: 75

**PART - A ( 10 X 2 =20)**  
**ANSWER ALL QUESTIONS**

1. Define - Project Goal
2. What is mean by Project Management?
3. List out the Estimate types.
4. What is BAC?
5. What are the types of Project manager Power?
6. Define - staffing management Plan.
7. What is the use of crashing?
8. Illustrate quality versus grade.
9. What are the three types of Decision Making processes?
10. What is Formal Acceptance?

**PART -B (5 X 5=25)**  
**ANSWER ALL QUESTIONS**

11. a) Explain the five section in the feasibility plan.  
(or)  
b) Describe the Major points of WIIFM principle.
12. a) Explain in detail about Zero Based Budget.  
(or)  
b) Describe the core processes of WBS.
13. a) Describe the Phases of team development.  
(or)  
b) List out the six things to create accurate cost Estimate.
14. a) Explain - Status Collecting Tools.  
(or)  
b) Describe the quality phases of project management

15. a) Describe in detail about Team Meetings.  
(or)  
b) Write short notes on Project Postmortem.

**PART-C (3 X 10=30)**  
**ANSWER ANY THREE QUESTIONS**

16. Discuss in detail about management's role
17. Describe about Coordinating WBS Components
18. Explain the common Project plan documents.
19. Discuss about the key management skills needs to successfully manage a project.
20. Explain about how to obtain the project Final Sign-off.

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**For Candidates Admitted From 2015-2017**

2015-17 BIT 43C

ROLL NO.....

B.Sc. DEGREE EXAMINATIONS, APRIL 2019

SEMESTER – IV INFORMATION TECHNOLOGY  
VISUAL BASIC PROGRAMMING

Time: 3 Hrs

Max. Marks: 75

**PART - A ( 10 X 2 =20)**

**ANSWER ALL THE QUESTIONS**

1. What are SDI and MDI?
2. What is a constant? How to declare it?
3. Write down the appropriate Select Case control structure for the following if statements:  
If Grade > 90 Then YourGrade = " A"  
If Grade > 80 and Grade < 90 Then YourGrade ="B"
4. Mention any two text based controls of VB.
5. What are the different types of dialog boxes?
6. What is meant by debugging?
7. What is an array? How to declare it?
8. List down the different file access methods supported by VB.
9. What do ADO and OLE stand for?
10. What is a database? Give examples.

**PART - B ( 5 X 5 =25)**

**ANSWER ALL THE QUESTIONS**

11. a) Write short notes on:  
i) Numeric Operators of VB ii) Library Functions. (3 + 2 marks)  
(or)  
b) What is a data type? Explain the different data types supported by VB.
12. a) With examples, explain the If ... Then ... Else control structure.  
(or)  
b) Explain the functionality of check boxes and option buttons of VB.

13. a) With an example, explain the Input Box() of VB.

(or)

- b) How to use the Timer control in designing an application? Explain.

14. a) Explain the role of the following key words in handling arrays: Dim, Public, Private, ReDim and Preserve.

(or)

- b) Explain any two functions to handle a sequential file with examples.

15. a) Write short notes on :

2+3 marks

- i) Visual Data Manager ii) Record sets of VB

(or)

- b) List out the general data validation requirements for designing an application.

**PART - C ( 3 X 10 =30)**

**ANSWER ANY THREE QUESTIONS**

16. What does IDE stand for? List the different components of Visual Basic IDE. Explain any four of it in detail.
17. With flow chart, explain the deterministic looping statements of VB in detail.
18. Give an account on Menus in Visual Basic.
19. Write a program to calculate the row and column sums of a two dimensional array of size MxN.
20. Write down the steps involved in designing a database project using ActiveX Data Controls.

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**For Candidates Admitted From 2015-2017**

15 BCS 61C

REG.NO.....

**B.Sc. DEGREE EXAMINATIONS, APRIL 2019**

**COMPUTER SCIENCE**

**SEMESTER : VI**

**VISUAL BASIC PROGRAMMING**

**Time : 3 HRS.**

**Max.Marks: 75**

**PART -A ( 10 X 2 =20)**

**ANSWER ALL THE QUESTIONS**

- 1.What is Static Variable?
2. List out any Four types of Operators used in VB.
3. Name the Looping Structures in VB?
4. List out the values for Drive types.
5. What are Menu flags?
6. State the different types of Procedures used in VB?
7. Define : Dynamic Array.
8. What do you mean by GetFileSize ( )
9. What is OLE?
- 10.What are the advantages of an ActiveX Data Object?

**PART -B ( 5 X 5 =25)**

**ANSWER ALL THE QUESTIONS**

11. a.State the features and advantages of VB.  
(or)  
b.Explain the various Data types supported by VB.
12. a.Discuss Select Case statement with an Example.  
(or)  
b.Explain the use of Combo Box Control along with its properties, method and events.
13. a. Write short notes on Timer Control.  
(or)  
b.Explain procedures in VB, with suitable example.
14. a.What do you mean by Array? Write a code in Visual Basic to find the sum of numbers from 1 to 10.

(or)

- b.Explain the use of Sequential File in VB.
15. a.Explain how to manipulate a Record Set Object.

(or)

- b. Write a brief note on ActiveX Controls.

**PART -C ( 3 X 10 =30)**

**ANSWER ANY THREE QUESTIONS**

- 16.Explain the Elements of Visual Basic IDE.
- 17.Explain about List box Controls and Check box Controls.
- 18.Explain Menu Creation in VB with an example.
- 19.What is Control Array? Write a VB Program to simulate scientific calculator using Control Arrays.
- 20.Explain create, insert and update records in database , in VB with suitable examples.

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