

VIBGYOR HIGH

Second Term Examination

2019-2020

COMPUTER

Grade: VIII

Max. Marks : 80

Date: 20/03/2020

Time allowed : 2 hours

INSTRUCTIONS:

- Answers to this paper must be written on the paper provided separately.
- You will not be allowed to write during the first 15 minutes.
- This time is to be spent in reading the question paper.
- The time given at the head of this paper is the time allowed
- The intended marks for the questions or parts of questions are given alongside the questions.
- This question paper contains 5 printed pages.
- Attempt all questions from Section A and any four questions from Section B.

SECTION A (40 marks)

Attempt *all* questions

- | | | |
|-------------|--|-------------|
| Q. 1 | | [10] |
| a) | Define IDE. Name any two elements that make up the Visual Basic IDE. | [2] |
| b) | How does a modem help in transmitting data in a computer? | [2] |
| c) | Briefly explain the function of TCP/IP. | [2] |
| d) | What is a hub? | [2] |
| e) | Define methods and events in relation to controls. | [2] |

Q. 2 **[10]**

- a) Describe the structure of coaxial cable in data transmission media. **[2]**
- b) List any two features of Extranet in a computer network. **[2]**
- c) How many bytes are occupied by the variables together in the following: **[2]**
 - i) Dim s1, s2 as Integer
 - ii) Dim s3, s4 as Date
- d) "Computer networks help in sharing hardware resources". Explain. **[2]**
- e) Define switch. Why is it also known as intelligent hub? **[2]**

Q. 3 **[20]**

- a) Explain 'Instr' function in Visual Basic with an example. **[2]**
- b) Briefly explain Wi-Fi. **[2]**
- c) Define 'Form' in Visual Basic. Name any two form properties. **[2]**
- d) What is the function of logical operators? Name any two logical operators. **[2]**
- e) Write a Visual Basic program to count the number of characters in your name. **[2]**
- f) Write the output for the following: **[2]**

```

Dim n1, n2 as integer
Dim n3 as Boolean
n1=10
n2=10
n3= n1<>n2
MsgBox (n3)

```
- g) Why are microwaves used to transmit data over long distances? **[2]**
- h) Write the output for the following: **[2]**

```

Dim a, b as string
Dim c, d as integer
a=10
b=12
c=15

```

d=2

MsgBox (a+b)

MsgBox (c\d)

- i) Write any one difference between serial and parallel transmissions. [2]
- j) Write a Visual Basic Program to check whether a value entered by the user is a number or not. [2]

SECTION B (60 Marks)

(Attempt **any four** questions)

Q. 4 [10]

- a) Explain LAN and MAN networks. Differentiate between wired PAN and wireless PAN. [5]
- b) Define Network Topology. Discuss any one advantage and disadvantage of Mesh topology and Star topology. [5]

Q. 5 [10]

- a) Define Operators in Visual Basic and explain any 4 Comparison Operators. [5]
- b) Give the output of following functions: [5]

i) Var1 = "Have a nice day"

Var2 = Ucase (Var1)

MsgBox (Var2)

MsgBox (Now)

ii) St1 = "Vibgyor High"

MsgBox (Mid (St1,3,4))

iii) MsgBox (IsNumeric ("Say No to Plastic"))

iv) MsgBox (Rtrim ("Good bye "))

v) MsgBox (Replace ("14/02/2020", "/", "."))

Q. 6

[10]

- a) Assuming marks of the student entered in a textbox, write a program using conditional statements to print the appropriate grade according to the criteria given below. **[5]**

Marks	Grade
80-100	A
50-79	B
30-49	C

- b) Write a program in Visual Basic to find whether the number entered by the user is an even number or an odd number. **[5]**

Q. 7

[10]

- a) i) What are Concatenation operators in Visual Basic? Explain with an example. **[5]**
 ii) How is Mod operator different from division operator in Visual Basic? Explain with an example.
 iii) Name the type of operator used in the following expression:
 If x ^ y Then
 MsgBox ("Good luck")
- b) Write a Visual Basic program to find whether the number entered by the user is a factor of 30. **[5]**

Q. 8

[10]

- a) Explain about **Nested If....Then....Else** statements in Visual Basic with syntax. **[5]**
 b) Write a Visual Basic program to find the largest of three numbers. **[5]**

Q. 9

[10]

- a) Write a Visual Basic program to check whether the quadrilateral is a square or not. (Note: A square is a quadrilateral with four equal sides.) **[5]**
- b) Assuming salary of an employee entered in a textbox, write a program using Select Case statement to print the appropriate designation according to the criteria given below. **[5]**

Salary	Designation
500000 - 300000	Manager
299999 – 200000	Project Leader
199999 – 100000	Developer

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