14MCU09

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

BSc DEGREE EXAMINATION MAY 2017
(Third Semester)

Branch - **MATHEMATICS WITH COMPUTER APPLICATIONS**

VISUAL BASIC

Time : Three Hours Maximum : 75 Marks

SECTION-A (20 Marks)
Answer **ALL** questions
ALL questions carry **EQUAL** marks (10 x 2 = 20)

1 What is visual basic?
2 Define variable.
3 List out logical operators.
4 Write the syntax of for-next.
5 Write the syntax of Msg box.
6 What is the use of input box?
7 What is array?
8 How to declaring array?
9 Define file.
10 What is sequential data file?

SECTION - B (25 Marks)
Answer **ALL** Questions
ALL Questions Carry **EQUAL** Marks (5 x 5 = 25)

11 a Explain about object-related concepts.
OR
b Write down library functions.

12 a Discuss about branching with the if-then block.
OR
b Explain about looping with Do-loop.

13 a Explain about Menu enhancement.
OR
b Write a VB program to find Fibonacci series.

14 a Write down array characteristics.
OR
b Write a VB program to draw different shapes using menu editor.

15 a Explain about data file characteristics.
OR
b Write about processing the data file.

SECTION - C (30 Marks)
Answer any **THREE** Questions
ALL Questions Carry **EQUAL** Marks (3 x 10 = 30)

16 Briefly explain about operators with example.
17 Discuss about forms and controls.
18 Write in details about building drop-down menu.
19 Briefly explain about dynamic array with example.
20 Write down binary files.

PSG COLLEGE OF ARTS & SCIENCE

(AUTONOMOUS) HMCOM

BSc DEGREE EXAMINATION MAY 2017

(Third Semester)

Branch - **MATHEMATICS WITH COMPUTER APPLICATIONS**

DIGITAL ELECTRONICS

Time : Three Hours Maximum : 75 Marks

SECTION-A (20 Marks)

Answer **ALL** questions

ALL questions carry **EQUAL** marks (10x2 = 20)

.1 List the number systems.

2 Find the excess 3 code for 47 & 65.

3 Draw the Not Gate circuit and write the truth table.

4 Define duality theorem.

5 Add the given binary number (i) 1011 with 1110 (ii) 1000 with 1010.

6 What is encoder?

7 Write few lines about shift register.

8 Define counter.

9 What is binary ladder?

10 Write few lines about accuracy.

SECTION - B (25 Marks!

Answer **ALL** Questions

. ALL Questions Carry **EQUAL** Marks (5x5 = 25)

IT a Describe the parity codes.

OR

b Do'the following using decimal to binary conversion, (i) 25 (ii) 0.85.

12 a Explain the following gate (i) NAND (ii) NOR.

OR

b Deduce the following k map

	CD	CD	CD	CD
AB	0	0	0	0
AB	0	1	0	0
AB	1	r	1	1
AB	1	1	1	1

13 a Give an account on de-multiplexer.

OR

b Enumerate 4 bit parallel binary adder.

14 a Write short note for j-k flip flop.

OR

b Describe the working of delade counter.

15 a Give an account on weighted resistors of D/A converters.

OR

Distinguish accuracy and resolution.

SECTION - C (30 Marks)

Answer any **THREE** Questions

ALL Questions Carry **EQUAL** Marks (3x10 = 30)

16 Enumerate TTL to cmos interface.

17 Elucidate De-morgan's theorem.

18 Describe the function of decoder.

19 Give an account of D Flip Flop.

20 Explain A/P converter of counter type.