

Enrollment No.....



Faculty of Engineering
End Sem (Odd) Examination Dec-2017
EN2ES03 Informatics Practices
 Programme: Diploma Branch/Specialisation: All

Duration: 3 Hrs.**Maximum Marks: 60**

Note: All questions are compulsory. Internal choices, if any, are indicated. Answers of Q.1 (MCQs) should be written in full instead of only a, b, c or d.

- Q.1 i. Which of the following are the two main components of the CPU? **1**
 (a) Control Unit and Registers (b) Registers and Main Memory
 (c) Control unit and ALU (d) ALU and Bus
- ii. Which of the following memories needs refresh? **1**
 (a) SRAM (b) DRAM (c) ROM (d) All of these
- iii. Which of the following devices can be used to directly input printed text? **1**
 (a) OCR (b) OMR (c) MICR (d) All of these
- iv. Which of the items below are considered removable storage Media? **1**
 (a) Removable hard disk cartridges (b) (Magneto-optical) disk
 (c) Flexible disks cartridges (d) All of these
- v. Speed of line printer is limited by speed of **1**
 (a) Paper movement (b) Cartridge used
 (c) Paper used (d) All of these
- vi. Which of the following produces high quality output? **1**
 (a) Impact printer (b) Non Impact printer
 (c) Plotter (d) None of these
- vii. In the evolution of a computer language, all of the following characteristics should be considered except. **1**
 (a) Hardware maintenance cost (b) Efficiency
 (c) Readability (d) Software development aids
- viii. The _____ symbol is used to represent decision in flowchart. **1**
 (a) Circle (b) Rectangle (c) Diamond (d) None of these

- ix. In mesh topology, devices are connected via **1**
 (a) Multipoint link (b) Point to point link
 (c) No Link (d) None of these
- x. Which of the following is a type of program that either pretends to have, or is described as having, a set of useful or desirable features but actually contains damaging code? **1**
 (a) Trojans (b) Viruses (c) Worm (d) Adware

- Q.2 i. Define ROM and its type. **4**
 ii. Explain Memory Hierarchy in brief. **6**
 OR iii. Convert the following : **6**
 (a) $(0.513)_{10}$ to Octal (b) 673.124_8 to Binary
 (c) 1010.01101_2 to Decimal
- Q.3 i. Give classification of secondary storage. **2**
 ii. What do you mean by Magnetic Disk? Explain Floppy Disk, Hard Disk and Zip Disk in detail. **8**
 OR iii. Define the following **8**
 (a) OCR (b) OMR (c) MICR (d) Barcode Reader
- Q.4 Attempt any two: **5**
 i. Classify output devices. **5**
 ii. Define plotter and its type. **5**
 iii. What is the difference between hard copy and soft copy? **5**
- Q.5 i. State features of good programming language. **2**
 ii. Draw a flow chart for factorial using recursion. **3**
 iii. Explain generation of programming languages. **5**
 OR iv. What is the difference between system software and application software? **5**
- Q.6 Write short note on any two: **5**
 i. Network topologies **5**
 ii. Viruses **5**
 iii. Multimedia **5**

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EN2ES03 Information Practices
Marking Scheme

Q.1	i.	(c) Control unit and ALU	1
	ii.	(b) DRAM	1
	iii.	(a) OCR	1
	iv.	(d) All of the above	1
	v.	(b) Cartridge used	1
	vi.	(b) Non Impact printer	1
	vii.	(a) Hardware maintenance costs	1
	viii.	(c) Diamond	1
	ix.	(b) Point to point link	1
	x.	(a) Trojans	1
Q.2	i.	Define ROM 1mark Its type 3marks.	4
	ii.	Define Memory Hierarchy in brief.	6
OR	iii.	Convert the following : 2 marks each (2 marks * 3 = 6 marks) (a) (0.513) ₁₀ to octal (b) 673.124 ₈ to Binary (c) 1010.01101 ₂ to Decimal	6
Q.3	i.	Classification of secondary storage.	2
	ii.	What do you mean by magnetic disk? 2mark Explain Floppy Disk, 2mark Hard Disk 2mark Zip Disk in detail. 2mark	8
OR	iii.	Define the following 2 mark each (2 marks * 4 = 8 marks) (a) OCR (b) OMR (c) MICR (d) Barcode Reader	8
Q.4	i.	Classify output devices.	5
	ii.	Define plotter 2 marks and its type. 1.5 mark each (2 * 1.5 marks = 3 marks)	5
OR	iii.	Difference between hard copy and soft copy.	5
Q.5	i.	State features of good programming language.	2
	ii.	Draw a flow chart for factorial using recursion.	3

	iii.	Explain generation of programming languages.	5
OR	iv.	Difference between system software and application software.	5
Q.6		Attempt any two:	
	i.	Network topologies	5
	ii.	Viruses	5
	iii.	Multimedia	5
