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Seat No: PARUL UNIVERSITY	Enrollment No:
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FACULTY OF IT & COMPUTER SCIENC BCA, Winter 2017 – 18 Examination	Ŀ
Semester: 1 Subject Code: 05101101 Subject Name: Fundamentals of Computer & PC Software	Date: 21-12-2017 Time: 10:30AM to 01:00PM Total Marks: 60
Instructions:	Total Walks. 00
1. All questions are compulsory.	
2. Figures to the right indicate full marks.	
3. Make suitable assumptions wherever necessary.	
4. Start new question on new page.	
Q.1 Answer the followings.	
A. Write short notes.	(05)
1. What is the extension of file in MS-Excel 2003?	, ,
2. Write a truth table of AND gate.	
3. Which storage media is sequentially accessed and process?	
4. EEPROM stand for.	
5. Convert binary code 101011 to gray code.	
 Multiple choice type questions/ Give the sentence true or false.(Each of the property of the sentence true or false.) Thelogic gate that will have HIGH or "1" at its output whe HIGH. (a) AND (b) OR (c) NOT (d) NOR The difference between half adder and full adder is (a) Half adder has two inputs while full adder has four inputs (b) Half adder has one output while full adder has two outputs (c) Half adder has two inputs while full adder has three inputs (d) All of the Mentioned Impact printer produce printed output as pattern generated by laser be MS office is application software [true/false] 	en any one of its inputs is
5. cache memory is implemented using	
 (a) DRAM (b) SRAM (c) PROM (d) EPROM 6. The excess-3 code for 597 is given by (a) 100011001010 (b) 100010100111 (c) 010110010111 (d) 010110101101 	
 7. Formula in excel start with (a) + (b) - (c) = (d) % 8. What feature will you use to apply motion effects in between a slide e (a) Slide Transition (b) Slide Design (c) Animation Objects 	exits and another enters?
(d) Animation Scheme	

- **9.** Reflected binary code is also known as
 - (a) BCD code
 - (b) Binary code
 - (c) ASCII code
 - (d) Gray Code
- 10. Tiny droplets of coloured ink and nozzle is associated with?
 - (a) Dot matrix printer
 - (b) Laser Printer
 - (c) Inkjet printer
 - (d) Daisy wheel printer

Q.2	Answer the followings.(Any Five)	(15)
-	1. Write a differences between RAM and ROM	
	2. Write a short note on MICR	
	3. Explain 2 nd Generation of computer with its features.	
	4. Draw Diagram of NAND gate as Universal Gate.	
	5. Explain SR flip flops.	
	6. Explain different Types of Networks LAN,MAN and WAN.	
Q.3	Answer the following. (Any Three)	(15)
	1. Write a differences between Impact printer and Non-Impact printer.	
	2. Write a short note on Hard Disk.	
	3. Draw Block diagram of computer and explain all its functional units.	
	4. Write a short note on Multiplexer and De-Multiplexer.	
Q.4	Answer the following.	
A.	Write a short note on Characteristics of Computer.	(05)
В.	Do as directed	(10)
	1. $(2AB)_{16}=(?)_2$	
	2. Add Binary number $(100111)_2$ and $(11011)_2$	
	3. Binary subtraction of $(10101)_2$ – $(01110)_2$	
	4. (545.125) ₁₀ =(?) ₂	
	5. $(1110101)_2=(?)_{10}$	
OR		
В.	Explain 1's complement and 2's complement method in Binary Number system. Write the steps of binary subtraction using 1's complement and 2's complement method.	(10)