Foundation Course in IT

Unit- 1	Foundation Course in 11	Introduction to Computer System
1. Differentiate among a Bit, a	Nibble, a Byte and a word.	[2017, 2015]
2. What is Hybrid Computer?	, •	[2016]
	on the basis of size, speed and cost.	[2016, 2014]
	of computers with their advantages and disadvantages	
Explain Analog, Digital and		[2015]
	omputer. Explain the function of each of the blocks.	[2015]
Write short note on Analog		[2015]
3. What do you mean by Vacuu		[2014]
Describe features of third Ge		[2014]
	eneration computers.	
0. Describe Hybrid computers.	high and an desire first assessment as a second	[2014]
	hich was made in first generation computer.	[2013]
12. Write an example of analog	computer.	[2013]
Unit- 2		Input Devices
1. What is OMR?		[2017]
	escribe various types of scanners along with their adv	
	control various types of seamlers along with their adv	[2017]
3. What is digitizer?		[2016, 2014]
Write the names of various t	ynas of scannars	[2016]
5. Write short note on:	ypes of scanners.	[2016]
	er.	[2013]
b. Joystick		[2014]
c. MICR		[2014]
6. What is an optical scanner?		[2015]
7. Describe Hand Held Scanner	r.	[2014]
Unit- 3		Output Devices
Define the following:-		[2017]
a. BIOS		[2017]
b. PDA		
c. LCD		[2016]
2. Explain pointing device.	D: 1	[2016]
8. Write short note on Projection		[2016]
-	evices with their advantages.	[2016]
5. Write short note on:		[2015]
a. Laser Printer.		
b. Barcode printer		
	en a line printer and a character printer?	[2015]
	n-Impact printers with examples.	[2014]
3. Explain various types of more	nitors in detail.	[2014]
9. What is the unit for measuring	ng printer output quality?	[2013]
Unit- 4		Computer Display
	and VCA	[2017]
Distinguish between CVCA		[2017]
\mathcal{C}		[2016]
2. What do you mean by user in		
What do you mean by user inExplain display adaptor. Als	o explain any five types of display adaptors.	[2016]
 What do you mean by user in Explain display adaptor. Als Write short note on UXGA. 	o explain any five types of display adaptors.	[2016] [2015]
 What do you mean by user in Explain display adaptor. Als Write short note on UXGA. Write short note on followin 	o explain any five types of display adaptors.	[2016]
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 What do you mean by user in Explain display adaptor. Als Write short note on UXGA. Write short note on followin 	o explain any five types of display adaptors.	[2016] [2015]

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d. VGA

6. What do you mean by QVGA. [2013]

Uni	it- 5	Introduction to Memory
1.	What is cache memory?	[2017]
2.	Distinguish volatile and non-volatile memory .	[2017]
3.	Differentiate RAM, ROM, PROM, and EPROM.	[2017, 2014]
4. ~	What is Memory Buffer Register?	[2016]
5.	Explain Flash Memory.	[2016, 2014]
6.	Write short note on memory hierarchy.	[2016]
7.	What is volatile memory?	[2015]
8.	List any five secondary storage devices/memory.	[2015]
9.	What is EEPROM?	[2015]
	What is ROM? Describe its various types.	[2015]
	Write short note on DVD.	[2015]
12.	What is secondary memory? Explain hard disk.	[2015]
13.	What is memory hierarchy? Name the general classes of storage media that might make up a	memory hierarchy.
		[2015]
14.	Give an example of serial access memory.	[2014]
	Differentiate optical disk and magnetic disk with example.	[2014]
	What is a flash memory? Why it is so called?	[2013]
	Differentiate between UVEPROM and EEPROM.	[2013]
	A 51/4 inch optical disk has 3, 00,000 sectors each of 2352 bytes. What is its total storage capa	
10.	113/4 men optical disk has 3, 00,000 sectors each of 2332 bytes. What is its total storage capt	[2013]
19.	What is a magnetic disk? Explain how data are stored and organized on a magnetic disk.	[2013]
Uni	it. 6	Number System
Uni	it- 6	Number System
<u>Uni</u>	Define the term BCD and EBCDIC.	Number System [2017]
		•
1.	Define the term BCD and EBCDIC.	[2017]
1. 2.	Define the term BCD and EBCDIC. Convert (11001100) ₂ =(?) ₈	[2017] [2017] [2017, 2014]
1. 2. 3.	Define the term BCD and EBCDIC. Convert (11001100) ₂ =(?) ₈ What do you mean by gray code? Define K-map.	[2017] [2017] [2017, 2014] [2017, 2013]
1. 2. 3. 4. 5.	Define the term BCD and EBCDIC. Convert (11001100) ₂ =(?) ₈ What do you mean by gray code? Define K-map. Give the Boolean algebra representation and logic of two input XOR gate with its truth table.	[2017] [2017] [2017, 2014] [2017, 2013] [2017]
1. 2. 3. 4.	Define the term BCD and EBCDIC. Convert (11001100) ₂ =(?) ₈ What do you mean by gray code? Define K-map. Give the Boolean algebra representation and logic of two input XOR gate with its truth table. What is Excess-3 code? Explain with suitable example.	[2017] [2017] [2017, 2014] [2017, 2013] [2017] [2017, 2015]
1. 2. 3. 4. 5. 6.	Define the term BCD and EBCDIC. Convert (11001100) ₂ =(?) ₈ What do you mean by gray code? Define K-map. Give the Boolean algebra representation and logic of two input XOR gate with its truth table. What is Excess-3 code? Explain with suitable example. Prepare the truth table and logic diagram for the following Boolean expression:	[2017] [2017] [2017, 2014] [2017, 2013] [2017]
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1. 2. 3. 4. 5. 6. 7.	Define the term BCD and EBCDIC. Convert (11001100) ₂ =(?) ₈ What do you mean by gray code? Define K-map. Give the Boolean algebra representation and logic of two input XOR gate with its truth table. What is Excess-3 code? Explain with suitable example. Prepare the truth table and logic diagram for the following Boolean expression: a. (A+B).(A+B) b. (A.B)+(A.B)	[2017] [2017] [2017, 2014] [2017, 2013] [2017] [2017, 2015] [2017]
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1. 2. 3. 4. 5. 6. 7.	Define the term BCD and EBCDIC. Convert (11001100) ₂ =(?) ₈ What do you mean by gray code? Define K-map. Give the Boolean algebra representation and logic of two input XOR gate with its truth table. What is Excess-3 code? Explain with suitable example. Prepare the truth table and logic diagram for the following Boolean expression: a. (A+B).(A+B) b. (A.B)+(A.B) What is number system and Boolean algebra? How many types of number systems are availa Write down the full form of EBCDIC. Convert 1233 ₄ =? ₈	[2017] [2017, 2014] [2017, 2013] [2017, 2015] [2017, 2015] [2017] ble there? [2017] [2016] [2016]
1. 2. 3. 4. 5. 6. 7. 8. 9. 10.	Define the term BCD and EBCDIC. Convert (11001100) ₂ =(?) ₈ What do you mean by gray code? Define K-map. Give the Boolean algebra representation and logic of two input XOR gate with its truth table. What is Excess-3 code? Explain with suitable example. Prepare the truth table and logic diagram for the following Boolean expression: a. (A+B).(A+B) b. (A.B)+(A.B) What is number system and Boolean algebra? How many types of number systems are availa Write down the full form of EBCDIC. Convert 1233 ₄ =? ₈ Define logic gate.	[2017] [2017, 2014] [2017, 2013] [2017, 2015] [2017, 2015] [2017] ble there? [2017] [2016] [2016] [2016]
1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12.	Define the term BCD and EBCDIC. Convert (11001100) ₂ =(?) ₈ What do you mean by gray code? Define K-map. Give the Boolean algebra representation and logic of two input XOR gate with its truth table. What is Excess-3 code? Explain with suitable example. Prepare the truth table and logic diagram for the following Boolean expression: a. (A+B).(A+B) b. (A.B)+(A.B) What is number system and Boolean algebra? How many types of number systems are availa Write down the full form of EBCDIC. Convert 1233 ₄ =? ₈ Define logic gate. Multiply 101101 ₂ with 11011 ₂ .	[2017] [2017, 2014] [2017, 2013] [2017, 2015] [2017] [2017, 2015] [2017] ble there? [2017] [2016] [2016] [2016] [2016]
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1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13.	Define the term BCD and EBCDIC. Convert (11001100) ₂ =(?) ₈ What do you mean by gray code? Define K-map. Give the Boolean algebra representation and logic of two input XOR gate with its truth table. What is Excess-3 code? Explain with suitable example. Prepare the truth table and logic diagram for the following Boolean expression: a. (A+B).(A+B) b. (A.B)+(A.B) What is number system and Boolean algebra? How many types of number systems are availad. Write down the full form of EBCDIC. Convert 1233 ₄ =? ₈ Define logic gate. Multiply 101101 ₂ with 11011 ₂ . What is X-NOR gate? The Hexadecimal number system has base is?	[2017] [2017, 2014] [2017, 2013] [2017, 2013] [2017] [2017, 2015] [2017] ble there? [2017] [2016] [2016] [2016] [2016] [2016] [2015] [2015]
1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14.	Define the term BCD and EBCDIC. Convert (11001100) ₂ =(?) ₈ What do you mean by gray code? Define K-map. Give the Boolean algebra representation and logic of two input XOR gate with its truth table. What is Excess-3 code? Explain with suitable example. Prepare the truth table and logic diagram for the following Boolean expression: a. (A+B).(A+B) b. (A.B)+(A.B) What is number system and Boolean algebra? How many types of number systems are availa Write down the full form of EBCDIC. Convert 1233 ₄ =? ₈ Define logic gate. Multiply 101101 ₂ with 11011 ₂ . What is X-NOR gate? The Hexadecimal number system has base is? Binary equivalent of decimal 8 is.	[2017] [2017, 2014] [2017, 2013] [2017, 2013] [2017] [2017, 2015] [2017] ble there? [2017] [2016] [2016] [2016] [2016] [2015] [2015] [2015]
1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15.	Define the term BCD and EBCDIC. Convert (11001100) ₂ =(?) ₈ What do you mean by gray code? Define K-map. Give the Boolean algebra representation and logic of two input XOR gate with its truth table. What is Excess-3 code? Explain with suitable example. Prepare the truth table and logic diagram for the following Boolean expression: a. (A+B).(A+B) b. (A.B)+(A.B) What is number system and Boolean algebra? How many types of number systems are availa Write down the full form of EBCDIC. Convert 1233 ₄ =? ₈ Define logic gate. Multiply 101101 ₂ with 11011 ₂ . What is X-NOR gate? The Hexadecimal number system has base is? Binary equivalent of decimal 8 is. Explain 1's compliment and 2's compliment.	[2017] [2017, 2014] [2017, 2013] [2017, 2013] [2017] [2017, 2015] [2017] ble there? [2017] [2016] [2016] [2016] [2016] [2015] [2015] [2015]
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- b. BCD
- 18. Why are combinational circuits more frequently constructed with NAND and NOR gate than with AND, OR and NOT gates? [2015]
- 19. Convert following numbers to decimal:
 - a. 110110₂
 - b. 111.01₂

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	c.	$2A3B_{16}$		
	d.	247.658		
20. V	Write 'De M	lorgan's Law'.		[2014]
21. S	Subtract (11	$11)_2$ from $(100100)_2$.		[2014]
22. E	Explain com	puter codes.		[2014]
23. P	Prove the fo	llowing theorem by truth table:		[2014]
	a.	$x.(x^-+y)=x.y$		
	b.	$x+x^{-}.y=x+y$		
24. V	What do you	mean by logic gates? Explain various logic gates with block diagrams and	truth	tables.
				[2014]
25. I	Divide (110	1101111) ₂ by (0111) ₂		[2013]
26. V	Why BCD c	ode was extended to EBCDIC?		[2013]
27. Prove the two basic De Morgan's theorems.			[2013]	

28. What are logic gates? Why NAND and NOR gates are called universal gates? [2013]
29. What is meant by the base of a number system? Give examples to illustrate the role of base in positional number systems. [2013]

Unit-7 Computer Viruses

1.	Define the term "WORM".	[2017]
2.	What is computer virus? Describe some popular types of computer virus and symptoms to id	entify them.
		[2017, 2016]
3.	Define computer virus.	[2014]
4.	Describe symptoms of computer virus infection.	[2014, 2013]
5.	What do you mean by 'Logic Bombs'?	[2013]
6	What is a computer virus? Explain different kinds of viruses with example	[2103]

Unit- 8 Applications of Computer

1. What is the use of computer in following area?

[2017]

a. Manufacturing

2 A 2D

- b. Medicine and heath care
- c. Communication
- d. Scientific

Unit- 9		Internet and WWW

1.	Which protocol is more reliable between TCP and UDP?	[2017]
2.	What is Intranet?	[2017, 2013]
3.	Write short note on:	[2017]
	a. Internet Surfing	[2013]
	b. Browsers	
	c. Email	
4.	What is UDP?	[2016, 2014]
5.	Differentiate between Web Page & Web site.	[2016]
6.	Write short note on Application Protocol.	[2016]
7.	Write short note on:	[2014]
	a. WWW	
	b. Internet	
8.	What is a www browser?	[2013]
9.	What is Domain name and how is it different from an IP address?	[2013]
10.	Explain in brief different types of protocol use in internet.	[2013]

Unit- 10 Data Warehouse

1. Describe data warehouse, its components and advantages and disadvantages of using it. [2017, 2013]

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Write short note on Data warehouse. [2016, 2014]
 Explain various components of Data warehouse. [2014]

<u>Unit- 11</u>		
1.	What is the need of Application Software?	[2016]
2.	What is program?	[2015]
3.	What is algorithm?	[2015]
4.	Give the definition of flow chart.	[2015]
5.	Write short notes on Programming software.	[2013]