UNIT 3 - IMPORTANT QUESTIONS Date as what is an instruction in the context of computer organization? Explain the purpose of the various elements of an instruction with the help a simple instruction format. A? Evaluate the arithmetic statement X = (A+B)* (C+D) using a general negister computer with three address, two address and one address instruction formal a program to evaluate the expression [AKTU-2018-19] [AKTU- 2014-15] a3 Explain all the phases of instruction cycle [AKTU - 2018-19] ay write The steps in fetching a word from memory. Differentiale between a branch instruction call subroutine instruction. [AKTU-2014-15] as In an instruction formal, there are 16 bits in an instruction word. Bit 0 and 11 convey the address of the memory location for memory instructions. For non memory instructions bits convey various registr or 1/0 operations Bilt 18 to 14 Show the various basic memory operations such as ADD, AND, LDA etc. Bit shows if the memory is accursed directly on indirectly. For such an instruction format block diagram of the central unit of a computer and briefly explain hom an instruction will be decaded and executed, by this control unit AKTU - 2016 - 17 as List and explain different lypes of shift micho operation [AKTU-2016-17] Spiral

Date
at what are the different categories of micha operations that may be carried out by CPU? Explain each category of micra - operations giving are example for each. [8014-15]
operations that meny of micro-operations
airing are example for each [5014-15]
as liber is cream in characteristics.
[2015-16]
ag mont is RISC? Explain els various characteristics. [2015-16]
[2015-16]
a10 Give the ditailed comparison between RISC and CISC = [2018-19] [2015-16]
2018-19 [2015-16]
all write a short not on pipelining.
all Explain The basic concept of hardwired and
212 Explain The basic concept of hardmixed and Software control unit with neat diagrams. [2014-15] [2015-16] [2018-19]
A13 harat is minum manual ant 1 1 1 1 1 1 1
The basic structure of micro-programmed control
The basic structure of micro-programmed control =
and the control unit organization for a typical
miera pragrammed controllers using suitable
diagram.
[2017-18]
al4 Write a short note on micro program sequences =
for contral memory.
ALT N.: 11. 1.10 TO
at Briefly define the following terms. 7 (i) Micro operation [72016-17]
М місно- codi. [2014-15]
Tontral memary.
Spiral -

	Date
als Write following	an assembly level proegram for The psendo code . SUM = 0 SUM = SUM + A + B DIF = DIF - C SUM = SUM + DIF
Q17 Explain diagram	4- bet incrementer with a necessary.
018 Write countre	о clear the continus of hex locations 5 FF with 0.
	Strate the process of second poiss of using a suitable diagram.
))	
3	
2	

UNIT-4 IMPORTANT QUESTIONS Date
Ometions are from 2014-15"
Quetions are from "2014-15" "2015-16", "2016-17", "2017-18" & "2018-19",
al five to structure of commercial 8Mx8 bil-
as give the structure of commercial 8M x 8 bit
DRAM Chép.
as A computer uses a memory until with 256 k words of
32 bils each. A binary instruction code is stored in
one word of memory. The instruction has four parts
an indirect kit, an operation code, a register code
part to specific one of 64 register and an
part to specific one of 64 register and an address part.
1) How many bits are there in the operation code
the register code point and the address point?
1 Draw the instruction word parmat and indicat
The number of kils in each port
(m) How many bits are there in the data and
address inputs of the memory?
a3 consider a cache uses a direct mapping scheme.
The size of main memory is 4K byles and word
size of rache is 2 bytes. The size of rache is
me mory is 128 bytes. Find the following:
D' The size of main memory address (assume each
bytes of main memory has an address)
(ii) Address of cache block.
How many memory location address will be
translated to eache address/ black/ location!
(1) How can it be determined if The content of
specified main memory address in rache?

Q4 A computer uses RAM chips of 1024 * 1 capacity. 1 How many chips are needed and how should Their address lines be connected to provide a memory capacity of 1024 * 8? (1) How many chips are needed to provide a memory capacity of 16 kB? Explain in Words how the chips are to be connected to the Explain with suitable example. D'Associative memory. At Discuss the various types of address mapping using in cache memory. as White short note on organization of 2D and 25D memory organization. ag A ROM chip of 1024 * 8 has four select impuls of operates from a 5 volt power supply. How many pins are needed for The Ir parchage? Draw a block diagram and label all input and output terminals. 210 How main memory is useful in computer system? Explain The memory address map of RAM and ROM

All What is associative memory? Explain with the help of a block diagram. Also mention the situation in which associative memory can be effective utilized. Q12. A timo may set associative cache memary uses blacks of 4 words. The cache can accommodation a total of 2048 words from memory The main memory size it 128K x 32. 1) Formulate all pertinent information required 10 what is the size of each memory? Q13 Write a short note on virtual memory? major characteréstics. at what is the distinction between sportial locality and temporal locality? ON A maning arm disc storage device has the following specifications:

Number of Ynacks per recording surface = 200

Disc rolation speed = 2400 revolution/minute

Track - storage capacity = 62500 bits

Estimate the average faturey and data transfer

Ajay Kumar Garg Engineering College, Ghaziabad Department of Computer Science and Engineering

2nd III Sem Year Time Table Template

Day/Time	Day/Time 9:30-10:30		11:00-12:00	
Monday	Lecture		Lecture	
Tuesday	Lecture		Lecture	
Wednesday	Lecture	BREAK	Lecture	
Thursday	Lecture		Lecture	
Friday	Lecture		Lecture	

$3rd\ V\ Sem\ Year\ Time\ Table\ Template$

Day/Time 9:30-11:00		11:00-11:30	11:30-1:00
Monday	Lecture		Lecture
Tuesday	Lecture		Lecture
Wednesday	Lecture	BREAK	Lecture
Thursday	Lecture		Lecture
Friday	Lecture		Lecture

4th VII Sem Year Time Table Template

Day/Time	9:30-11:00	11:00-11:30	11:30-1:00
Monday	Lecture		Lecture
Tuesday	Lecture		Lecture
Wednesday	Lecture	BREAK	Lecture
Thursday	Lecture		Lecture
Friday	Lecture		Lecture

Ajay Kumar Garg Engineering College, Ghaziabad Department of Computer Science and Engineering

2nd Year III SemCalender

	Dec-20						
Mon	Tue	Wed	Thur	Fri	Sat	Sun	
	1	2	3	4	5	6	
		Revision Clas	s for KCS-303	•	Preparatory off	Preparatory off	
7	8	9	10	11	12	13	
	Revi	ision Class for KCS	-303	•	Preparatory off	Preparatory off	
14	15	16	17	18	19	20	
PUT (KCS-303)		Revision Class	s for KNC-301	•	Preparatory off	Preparatory off	
21	22	23	24	25	26	27	
Revision Class for KNC-301 Holiday (X'mas)					Preparatory off	Preparatory off	
28	29	30	31				
PUT(KNC-301)	Revi	ision Class for KCS	-302				

Jan-21						
Mon	Tue	Wed	Thur	Fri	Sat	Sun
				1	2	3
				RC for Subject KCS-302	Preparatory off	Preparatory off
4	5	6	7	8	9	10
	Revi	ision Class for KCS	-302		Preparatory off	Preparatory off
11	12	13	14	15	16	17
PUT (KCS-302)		Revision Clas	s for KCS-301		Preparatory off	Preparatory off
18	19	20	21	22	23	24
	Revi	Preparatory off	Preparatory off			
25	26	27	28	29	30	31
PUT (KCS-301)	Rebublic Day	Rev	ision Class for KAS	Preparatory off	Preparatory off	

			Feb-21			
Mon	Tue	Wed	Thur	Fri	Sat	Sun
1	2	3	4	5	6	7
	Revi	ision Class for KAS	-301		Preparatory off	Preparatory off
8	9	10	11	12	13	14
PUT (KAS-301)		Revision C	lass for OE		Preparatory off	Preparatory off
15	16	17	18	19	20	21
	R	Levision Class for O	E		Preparatory off	Preparatory off
22	23	24	25	26	27	28
PUT (OE)						
25	26	27	28	29	30	

Ajay Kumar Garg Engineering College, Ghaziabad Department of Computer Science and Engineering

3rd Year V Sem Calender

	Dec-20						
Mon	Tue	Wed	Thur	Fri	Sat	Sun	
	1	2	3	4	5	6	
		Revision Class	s for KCS-051		Preparatory off	Preparatory off	
7	8	9	10	11	12	13	
PUT (KCS-051)		Revision Class	s for KCS-503		Preparatory off	Preparatory off	
14	15	16	17	18	19	20	
PUT (KCS-503)		Revision Class	s for KCS-055		Preparatory off	Preparatory off	
21	22	23	24	25	26	27	
PUT (KCS-055)	Revision Class for KNC-501 Holiday (X'mas)				Preparatory off	Preparatory off	
28	29	30	31				
PUT (KNC-501)	Revi	sion Class for KCS	5-502				

Jan-21						
Mon	Tue	Wed	Thur	Fri	Sat	Sun
				1	2	3
				Revision Class for KCS-502	Preparatory off	Preparatory off
4	5	6	7	8	9	10
PUT (KCS-502)		Revision Class	s for KCS-501		Preparatory off	Preparatory off
11	12	13	14	15	16	17
PUT (KCS-501)						
18	19	20	21	22	23	24
25	26	27	28	29	30	31

Ajay Kumar Garg Engineering College, Ghaziabad
Department of Computer Science and Engineering
3rd Year Re-admit V Sem Calender

Dec-20						
Mon	Tue	Wed	Thur	Fri	Sat	Sun
	1	2	3	4	5	6
		Revision Class	s for RAS-501		Preparatory off	Preparatory off
7	8	9	10	11	12	13
PUT (RAS-501)		Revision Clas	s for RCS-502	•	Preparatory off	Preparatory off
14	15	16	17	18	19	20
PUT (RCS-502)		Revision Clas	s for RCS-503		Preparatory off	Preparatory off
21	22	23	24	25	26	27
PUT (RCS-503)	Revision Class for RUC-501 Holiday (X'ma				Preparatory off	Preparatory off
28	29	30	31			
PUT (RUC-501)	Revi	sion Class for RCS	5-052			

			Jan-21			
Mon	Tue	Wed	Thur	Fri	Sat	Sun
				1	2	3
				Revision Class for RCS-052	Preparatory off	Preparatory off
4	5	6	7	8	9	10
PUT (RCS-052)		Revision Clas	Preparatory off	Preparatory off		
11	12	13	14	15	16	17
PUT (RCS-501)						
18	19	20	21	22	23	24
25	26	27	28	29	30	31

Ajay Kumar Garg Engineering College, Ghaziabad

Department of Computer Science and Engineering

4th Year VII Sem Calender

			Dec-20			
Mon	Tue	Wed	Thur	Fri	Sat	Sun
	1	2	3	4	5	6
		Revision Class	Preparatory off	Preparatory off		
7	8	9	10	11	12	13
PUT (RCS-702)		Revision Class	Preparatory off	Preparatory off		
14	15	16	17	18	19	20
PUT (RCS-073)		Revision Class	s for RCS-701		Preparatory off	Preparatory off
21	22	23	24	25	26	27
PUT (RCS-701)	R	evision Class for C	Preparatory off	Preparatory off		
28	29	30	31			
PUT (OE)	Revi	sion Class for RCS	5-075			

			Jan-21			
Mon	Tue	Wed	Thur	Fri	Sat	Sun
				1	2	3
				Revision Class for RCS-075	Preparatory off	Preparatory off
4	5	6	7	8	9	10
PUT (RCS-075)		Projec	ct PPT		Preparatory off	Preparatory off
11	12	13	14	15	16	17
		Project PPT				
18	19	20	21	22	23	24
25	26	27	28	29	30	31

Ajay Kumar Garg Engineering College, Ghaziabad PUT Proposed Schedule

Department of Computer Science and Engineering

3rd & 4th Year PUT Schedule

Timing: 10:00AM to 1:00 PM

Branch/Date	07-D	ec-20	14-D	ec-20	21-D	ec-20	28-D	ec-20	04-Ja	n-21	11-Jan-21
Year	III	IV	III	IV	III	IV	III	IV	III	IV	III
CSE	KCS-051	RCS-702	KCS-503	RCS-073	KCS-055	RCS-701	KNC-501	OE	KCS-502	RCS-075	KCS-501

2nd Year PUT Schedule

Timing: 10:00AM to 1:00 PM

Branch/Date	14-Dec-20	28-Dec-20	11-Jan-21	25-Jan-21	08-Feb-21	22-Feb-21
Year	II	II	II	II	II	II
CSE	KCS-303	KNC-301	KCS-302	KCS-301	KAS-301	OE
CS	KCS-303	KNC-301	KCS-302	KCS-301	KAS-301	OE

3rd Year Readmitted PUT Schedule

Timing: 10:00AM to 1:00 PM

Branch/Date	07-Dec-20	14-Dec-20	21-Dec-20	28-Dec-20	04-Jan-21	11-Jan-21
Year	II	II	II	II	II	II
CSE	RAS-501	RCS-502	RCS-503	RUC-501	RCS-052	RCS-501

Highlighted subjects are common between branch(s).