

Enrollment No. EN22CS301175



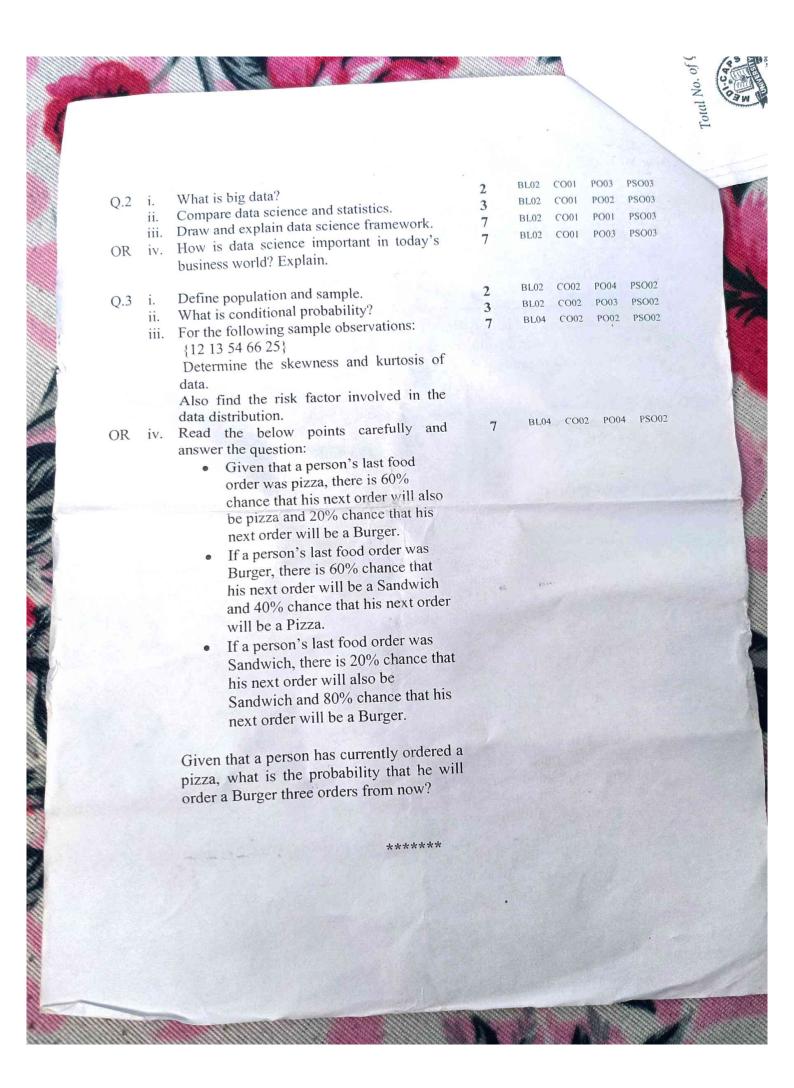
Faculty of Engineering Mid Sem I Examination September-2024 CS3EL13 Data Science

Programme: B.Tech. Duration: 1.5 Hrs.

Branch/Specialization:CSE
Maximum Marks: 30

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. Assume suitable data if necessary. Notations and symbols have their usual meaning.

11000330	my. Notations and symbols have their usual meaning	ng.				
		Marks	BL	CO	PO	PSO
Q.1 i.	language for Data Science?	1	BL01	CO01	PO01	PSO01
ii	a) Java b) Ruby c) R d) None of these Which of the following focuses on the discovery of (previously) unknown	1 1	BL02	CO01	PO01	PSO01
THE STATE OF	properties on the data?	and the second	1		THE STATE OF	
	a) Data mining b) Big Data					
;;;	c) Data wrangling d) Machine Learning					
111	Which of the following step is performed by data scientist after acquiring the data?	1	BL01	CO01	PO02	PSO01
	a) Data Cleansing b) Data Integration					
	c) Data Replication d) All of these	and the second				
iv.		1,0	BLI	CO02	PO02	PSO02
	a) Continuous b) Small					
	c) Mixed d) Discrete					
V.	Normal Distribution is applied for	1	BL02	CO02	PO02	PSO02
	a) Continuous Random Distribution					
	b) Discrete Random Variable c) Irregular Random Variable					
	d) Uncertain Random Variable					
vi.	Which of the following is not a type of	1	BL01	CO02	PO03	PSO01
	machine learning?					
	a) Supervised b) Unsupervised					
	c) Procedural d) Reinforced					





Enrollment No. EN22C 5301175

Faculty of Engineering / Science Mid Sem-I Examination September-2024

CS3CO40 / BC3CO66 Software Engineering Programme: B.Tech./ B. SC Duration: 1.5 Hrs. Branch/Specialization: CSE

Note: All questions are compulsory. Internal choices, if any, are indicated. Answers of Q.1 e data if

Q.1	i.	y. Notations and symbols have their usual	Marks	BL	CO	PO
	**	Which of the following CANNOT be	1	BL	CO	POoi
		called a software life cycle model?				PO ₀₂
		Capability maturity model				
		b) Waterfall model				
		c) Prototype model			DE ELECT	
	ii.	d) RAD model	The second			
	11.		1	BL	CO	PO ₀₁
		of the of software developments		- J	The same of the sa	PO_{02}
		Analysis-DesignCoding				
		TestingMaintanance				
		b) AnalysisDesignCoding				
		MaintananceTesting				
		c) Design AnalysisCoding				
		MaintananceTesting				
		d) Design AnalysisCoding				
	iii.	MaintananceTesting.				
	ui.		1	BL,	CO	POot
		a) Set of instructions + operating				PO ₀₂
	,	procedures				
		b) Programs + Documentation +				
		operating procedures				
		c)Programs + Hardware manuals				
	·	d)Set of programs.				
	iv.	Which of the following UML	1	BL_1	CO_2	PO_{α_1}

a) Collaboration Diagram

W Use-case Diagram

c) State chart Diagram

d) Activity Diagram

					Total No. of Ques	
v. Which one is not a step of requirement engineering? a) Requirements elicitation b) Requirements analysis Requirements design	1	BL	-I CO	PO _{bt}		
d) Requirements documentation						
vi. Which one is not a type of requirements? a) Gathering of requirements	1	BI.,	CO2	PO ₀₁ PO ₀₂		1
b) Capturing of requirements c) Understanding of requirements d) All of the above					(A)	
Q.2 i. What is Entry and Exit criteria in SDLC?	2	BL ₂	CO1	PO _{b1}	9-	I
ii. Describe about different types of software crisis and software myths.?	3	BL ₂	COI	PO ₀₂ PO ₀₁ PO ₀₂		١
with a neat sketch	7	BL ₂	COI	PO _{a1} PO _{a2}		l
OR iv. Explain Component Assembly Modes with diagram.	7 !	Bl ₂	CO1	PO ₀₁ PO ₀₂		I
Q.3 i. What do you mean by Requirement Elicitation techniques. ii. Illustrate about Functional	2	BL ₂	CO2.	PO ₀₁ PO ₀₂		
Requirements and Non-functional Requirements.	2	BL ₂	CO2	PO ₀₁ PO ₀₂		
What is UML? Explain Use-case and	8	BL ₂	CO2	PO ₀₁ PO ₀₂		
OR iv. Explain Requirement engineering process.	8	BL ₃	CO2	PO ₀₁ PO ₀₂		

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				algorite Topport		

Enrollment No...EN 22 CS 301175



Faculty of Engineering / Science Mid Sem I Examination September-2024 CS3CO43 / BC3CO67 Computer Networks

Programme: B.Tech./ B. Sc Duration: 1.5 Hrs. Branch/Specialization: CSE 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. Assume suitable data if necessary. Notations and symbols have their usual meaning. Q.1 i. Which of the following MAC protocols reduces CO the probability of collisions by using time slots? 01,45, 01.03, (a) Pure ALOHA (b) CSMA/CD (c) Slotted ALOHA (d) CSMA/CA ii. What is the purpose of the binary exponential back-off algorithm in Ethernet? BLn COn 01-07, (a)To ensure equal bandwidth distribution among all users To manage retransmission timings after collisions (c) To optimize frame size (d) To detect frame errors iii In CSMA/CD, what happens after a collision is detected? (a) The frame is transmitted immediately after 48. the collision A Both stations stop transmission and wait for a random time before retrying (c) One station continues while the other stops transmission (d) Both stations wait for a fixed time before retransmitting iv. What is the purpose of the subnet mask in an IPv4 network? 61, 62 (a) To allocate IP addresses dynamically To identify the network and host portions of an IP address (c) To fragment and reassemble data packets (d) To configure network tunnelling v. A packet has arrived with an M bit value of 1 and a fragmentation offset value of zero. Is this BL OD fragment The first fragment (b) The last fragment (c) The middle fragment (d) None of these

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				b o reid (3)	y lithe premium of the premium of th	er esetif By	ho ho entry pr ou s,:	ets st is he og ter sta	the se	e to he ssi on	Ving Vhi ech osts ivel th	g fich nui s. ly ne ith	froi iqu qu pa th	m of the serve atheres	ible sor the use ying to first	ne ford l	ho llo by out B	st A win trac ers usin	abong	o scoption out	ons the	S						01-07, 10-12	01, 02,	To
			(m (c	on H	ı А Зу	eı) £ 1St	ıri:	ng	th	at	an	1 I		ſΡ	rep	oly	pac	ke	t is	iut Ely						e (20) viaza	9 -	
			1	th A	3 6	sc	en	di	ng	OI	de	rc	of t	the	eir l	hoj	o d	ista	nce	fr	om					diji				
				-	1	loi	ıe	of	th	ies	e																			
	Q.2		а	116	1 3	010	He	d	Al	LC	H	A.			ce l						200		2	BL	01	COol		01-05,	01, 03,	
		ii.	p	TC	to	co	I a	nc	i e	xp	ic lai	n l	ho	atio w	on it p	of	the	c Cs	SM	A/C isic	ons							10	01, 02, 03, 04	
(iii.	D) is	cufo	iss	ar	th	e	fa inc	acto	ors dir	s ng	fra	at am	a s	ize	et , ci	Etl olli	sio	net		6		04	COo			01, 02,	
	OR	iv.	E di	is th	ola cu:	iin ssi net	tl ng a	ne e no	E acl	the h f	ern fiel gat	ld's	fr s p E	ran our the	ne rpo: erne nan	se? et	im	low pro	do	F	ast		6	BL	03	CO ₀₃		01-07, 10-12	01, 02, 03	
Ne S	03		i.																1000					1613						
0	Q.3		rea	as	se	mt	Эly	11	1 n	net	WO	rk	CC	om	ımı	ıni	cat	ion	1 51				2	BL	01	COo	,	01-05,	01, 03, 04	
		11.	W Tr	ha ar	it isl	1S ati	on	ne i) i	n	ole IP	ne	f I	NA or	AT kin	(Nng?	Vet	wo	rk	Ad	ldre	ess		3	BL	02		2	01-08, 10	01, 02, 03,	
		111.]	Ex IP	p	do	n t	he	L	H	CI	Pр	ac	ke	et f	orn	nat	ar	id i	ts n	ole	in		7	BL	03	CO	a	01-07, 10-12	04 01, 02, 03	
	OR i	iv. 1	A 17: 25:	1 2. 5.	08	.10 5.2	24	20 8.0	0,	fin	ith id o	out	a t:		sub	one	t	m	ask		of			BL	03	COu		01-07, 10-12	01, 02	•
		S	ub	n	na et	at	18	th	e	ma	axi	mı	um	n n	num	ibe	rc	of h	ost	ts p	er			gh ino					1	,
		c) 5	Su	br	et	a	dd	res	SS (of	thi	is l	ho	st.											s is				



Enrollment No. EN22CS 30 1175

Faculty of Engineering

Mid Sem I Examination September - 2024 OE00018 Python Essentials

Programme: B.Tech. **Duration: 1.5 Hrs.**

Branch/Specialisation: All

Maximum Marks: 30

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. Assume suitable data if necessary. Notations and symbols have their usual meaning.

Q.1	i.	Which of the falle.		Marks	BI.	CO	PO	PSO
Ų.I	1.	of code in Python langua	is used to define a block	I	BLI	COL	P()2	
			Key					
			All of these	lah sa ja di				
	ii.	Which of the following	precedence order is		BLI	COL	000	
		correct in Python?	to was all the dis		DLI	COI	P()2	
		Parentheses, Exponen	tial, Multiplication,					
		Division, Addition, St	ubtraction					
		b) Multiplication, Divisi	on, Addition,					
		Subtraction, Parenthes						Contract of the Contract of th
		c) Division, Multiplication	on, Addition,	er Ge				
		Subtraction, Parenthes	ses, Exponential					
		d) Exponential, Parenthe Division, Addition, St	ses, Multiplication,					
	iii.			A POLICE OF	BLI	COL	POI	
		a) Java	C	1		(() (1 (7)	
		c) PHP d)	None of these					
	iv.	Which of the following of list?		1	BL2	CO2	P02	
		a) $list1 = list()$ b)	list1 = list([1, 2, 3])					
			list1 = { }					
	V.	What will be the output	of the following Python	1	BL2	CO2	P()2	
		code?	The state of					
		>> t = (1, 2, 4, 3, 8, 9)						

c) [1, 4, 8]

b) [1, 2, 4, 3, 8, 9]

A(1, 4, 8)

							Total No. of Ques	OF CAD
		vi.	What will be the output of the focode snippet? print('abcdef12'.replace('cd', '12 a) ab12ef12 b) abcdef12 c) ab12efcd d) None of these			BI.2 CO2 p		
	Q.2 OR 1	i. ii. iii. iv.	What is the difference between datatype and an Immutable data Write a program to reverse any g What are the Key features of Pyt Explain Python operators. Write a program to check a g palindrome or not.	type? www.uspen given number. www. thon?.	2 3 5	BL1 CO1 1 BL1 CO1 1	eot 3/1	
C	Q.3 OR	i. ii.		lement in list.	6 6	B1.2 CO2 B1.2 CO2 B1.2 CO2	POI POI PO2 PO3	
				of potential and adding 29				

Enrollment No.E.N. 22(5301175



Faculty of Engineering / Science Mid Sem I Examination September-2024

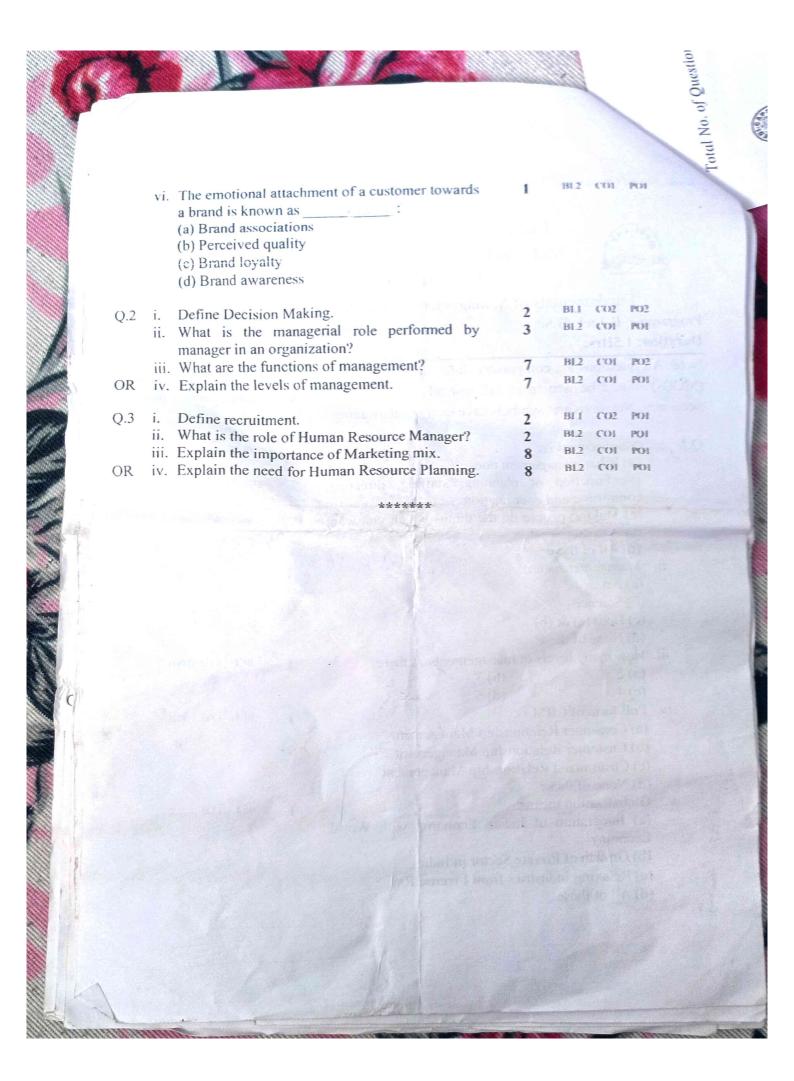
EN3HS04 / BC3HS04 Fundamentals of Management, Economics and Accountancy Programme: B.Tech./B.Sc.

Duration: 1.5Hrs.

Branch/Specialization: CSE / CS

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. Assume suitable data if

O. 1	or d. Assume suitable data i
(a) What management does (b) Function of planning, staffing, directing, controlling and coordination (c) Making people do the things which you want them to do	Marks BL CO BO
(d) All of these ii. Management is an: (a) Art (b) Science (c) Both (a) & (b) (d) None of these	1 BI.2 COI POI
(a) 2 (b) 3 (c) 4 (d) 5	BL1 CO2 PO1
(a) Consumer Relationship Management (b) Customer Relationship Management (c) Customized Relationship Management (d) None of these	1 BL1 (O2 PO1
Economy (b) Growth of Private Sector in India (c) Relaxing Industries from License Private Sector in India	BL2 CO2 PO2
(d) All of these	



Enrollment No. EN 22CS 301175



Faculty of Engineering Mid Sem I Examination September-2024 CS3EL17 NoSQL Database

Programme: B.Tech. Duration: 1.5 Hrs.

Branch/Specialization: CSE
Maximum Marks: 30

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. Assume suitable data if necessary. Notations and symbols have their usual meaning.

			.6.				
0.1		*****	Marks	BL	СО	РО	PSO
Q.1	i.	Which of the following is not a NoSQL database?	1	BLI	COI	PO1 PO2	PSO1
		a) SQL Server b) MongoDB					
		c) Cassandra d) None of these					
	ii.	Which of the following is a NoSQL Database Type?	1	BLI	CO2	PO2	PSO1 PSO2
		a) Key-Value			The state of the s		
		b) Document databases					
		c) JSON d) All of these					
	iii.	Which of the following is a wide-column		BL2	CO2	POI	PSOI
		store?	1	DLZ	C 02	PO2	PSOI
		a) Cassandra					
		b) Riak					
		c) MongoDB					
		d) Redis					
	iv.	Most NoSQL databases support automatic	1	BL2	COI	PO1	PSO3
		meaning that you get high					
		availability and disaster recovery.					
		a) Processing					
		b) Scalability					
		c) Replication					
		d) All of these					

						area.			
180				BL2	COL	POI	PSO2		
	v.	Which of the following are the simplest	1	Disa				69 9	V
7.5	1	NoSQL databases?							
		a) Key-value							
		b) Wide-column							
A Park inst		c) Document							
		d) All of these NoSQL databases are used mainly for	1	BLI	COI	POF	PSOI		
	vi.	handling large volumes of							
		data.					*		
		a) Unstructured							
		b) Structured							
		c) Semi-structured							
		d) All of these							T.
			19/11/19	DI. I	COL	DO3	DECL		
Q.2	i.	Explain the Features of NoSQL database.	2	BLI		PO2 PO2	PSO1		
	ii.	Write the difference between the ACID	3 -	BL2	COI	POI PO4	PSO1 PSO2		
	iii.	and BASE. Explain the triplestore database with an	7	BLI	COL	PO2	PSO1		
	Libe	example and suitable diagram.			gene le	Sept.		V4	
OR	iv.	Write the difference with the RDDN'S	7	BL3	7.01	PO2 PO3	PSO4		
		and NOSQL.							1
Q.3	i.	How can the data be kept safe in NoSql?	2	BLI	CO2	PO2	PSO1		1
Thus I	ii.	What is eventual consistency in the context	3	BL2	CO2	PO1	PSO1		- N
		of NoSQL?			450				- R
	iii.		7	BL3	CO2	PO1 PO2	PSO1 PSO2		1
OB		diagram in detail.		BL3	CO2	PO2	PSO1		
OR	iv.		7	DL3	(02	FO2	PSO3		1
		*****		1					
			11. The	1					
									1
1									
		The second secon		47		(a) A			
Thursen \			A STATE	1					