Total No.	of Questions	:	31
I Ottal I 100	or Agentions	•	$\mathbf{v}_{\mathbf{J}}$

PA-1956	
1 A-1/30	

[Total No. of Pages : 2

## [5954]-101

# First Year B.B.A. (Computer Application) CA-101: BUSINESS COMMUNICATIONS SKILLS (CBCS 2019 Pattern) (Semester-I)

<i>Time</i> : 2½	2 Houi	rs]				[Max. Marks : 70
Instruction 1) 2)	All qu	ıestioı	undidates: ns are compulsory. the right indicate full man	·ks.		
<b>Q1</b> ) A)	Fill	in th	e Blanks (Attempt any	5 out of	6):	[5]
	a)	The	e term "communis" der	rived fro	m word	l.
		i)	Greek	ii)	Latin	
		iii)	Chinese	iv)	English	
	b)	Coı	mmunication problems	otherwi	se known as.	
		i)	Enquire	ii)	Barriers	
		iii)	Encoding	iv)	Decoding	
	c)	Let	ters should be answere	l	_ ·	
		i)	Promptly	ii)	Orally	
		iii)	Non Verbally	iv)	Softly	
	d)	Wh	ich of these is not a me	dium of	e-mail?	
		i)	Intranet	ii)	Internet	
		iii)	Extranet	iv)	Paper	
	e)		is the easiest way	of comn	nunication.	
		i)	E-mail	ii)	Telephone	
		iii)	Fax	iv)	Letter	
	f)	The	e first page of a letter s	hould be	typed on a	·
		i)	Letterhead	ii)	Correctness	
		iii)	Inside Address	iv)	Courtesy	

	B)	Mate	ch the following:		[5]
			A		В
		a)	Mentioning the number of	i)	Reference Numbers
			the documents/papers are		
			enclosed in the		
		b)	Element which causes	ii)	Official communication
			disturbance in the flow		
			of communication		
		c)	Office circulars should consists	iii)	Channel
		d)	A memo is used as a means of	,	Sender
		e)	Person who sends information	v)	Enclosures
	C)	True	to another person is or False (Attempt any 4 out o	f 5):	[4]
		a)	Voice mail is a computer base	ed sys	tem.
		b)	Orders and directives are the ex	kamp]	le of downward communication.
		c)	SMS stands for Social Messa	ge Se	ervice.
		d)	The word "memo" is a short	form	of Memorandum.
		e)	Good manners come from one's	s hear	t and not a formal etiquette book.
<i>(</i> )2)	Short	t Ans	wer (Attempt any 3 out of 4):		[24]
2-7	a)		ain the Role of Communicatio	n in s	
	b)	•	at are the merits & demerits of (		·
	c)		ain in detail different layout of		
	d)	•	ain the importance of fax com		
	u)	Lxpi	and the importance of fax comi	illulli	ation & L-mans.
Q3)	Long	Ans	wer (Attempt any 2 out of 4)		[32]
	a)		at is communication? Expla munications.	in ne	ed & principles of effective
	b)	Expl	ain in detail the Qualities and d	ifficu	lties in written communication.
	c)	Expl	ain in detail various types of b	usine	ss latter.
	d)	State	e and explain different media o	f com	munication.

Total No. of Questions : 3]	SEAT No. :
PA-1957	[Total No. of Pages : 2

## [5954]-102

# First Year .B.B.A.(Computer Application) CA-102: PRINCIPLES OF MANAGEMENT (2019 Pattern) (Semester-I)

		(2019 Patteri	n) ( <b>Sem</b> o	ester-1)
	ons to	the candidates:		[Max. Marks : 70
1) 2)	_	estions are compulsroy. e to the right indicate full ma	rks.	
<b>Q1</b> ) a)	Fill	in the blanks (any 5)		[5×1=5]
	i)	is second functi	ion of ma	nagement.
	ii)	is a universal	concept.	
	iii)	Management is a	becau	se it is based on experiments.
	iv)	propounded H	<b>Iawthorne</b>	e experiments.
	v)	creates feeling	of threat	& fear among employees.
	vi)	means assigning	g work to	others.
b)	Mat	ch the following (5 marks)		$[5\times1=5]$
	i)	Henry Fayol	a)	Scientific Mgt-theory
	ii)	F.W Taylor	b)	14 principles
	iii)	Alton Mayo	c)	Hawthorne experiments
	iv)	Peter Drucker	d)	MBO
	v)	J.R.D Tat	e)	Diplomat
c)	Stat	e True/False (any four)		$[4\times1=4]$
	i)			een demands & pressures on the edge and abilities on other.
	ii)	TQM is infinitely invariab	ole & inad	aptable.
	iii)	David Mcclelland is know	vn for Ne	eds Hierarchy of Motivation
	iv)	Forecasting is part of plann of action.	ing which	n involves estimating future course
	v)	There is a close relation b	etween p	lanning & decision making.

### **Q2**) Answer any three:

 $[3 \times 8 = 24]$ 

- a) What are the types of decision making?
- b) Explain management as an art.
- c) What are principles of change?
- d) Explain Maslow's Law of Hierarcly.

## **Q3**) Answer any two:

 $[2 \times 16 = 32]$ 

- a) What is TQM? Explain elements of TQM.
- b) What is planning? Explain its process with a flow diagram.
- c) Explain Scientific Management Theory in detail.

• • •

Total No. of Questions : 5]	SEAT No.:
PA-4204	[Total No. of Pages : 2

[5954]-103A F.Y. B.B.A. (CA)

CA - 103 : C LANGUAGE

	(2019 Pattern) (CBCS) (Semester -	<b>I</b> )
	/2 Hours] fons to the candidates : All questions are compulsory.	[Max. Marks : 70
2)	Figures to the right indicate full marks.	
<i>Q1</i> ) Att	empt any Eight of the following (Out of Ten):	$[8 \times 2 = 16]$
a)	Define token.	
b)	Explain break statement.	
c)	Define Structure.	
d)	What is Keywords?	
e)	Define Associativity.	
f)	What is pointer arithmetic?	
g)	Explain two dimensional array.	
h)	What do you mean by Variable?	
i)	Define string.	
j)	Explain the use of goto statement.	

## **Q2)** Attempt Any Four of the following (Out of Five): $[4 \times 4 = 16]$

- a) Explain do ... while loop statement with syntax and example.
- b) Explain briefly structure declaration and accessing member from structure.
- c) Explain Logical operator with example.
- d) Explain briefly print() and scanf() I/O functions used in C.
- e) Write a program to find even number from Array.

#### Q3) Attempt Any Four of the following (Out of Five): $[4 \times 4 = 16]$

- a) Explain switch statement in detail.
- b) Explain Increment/Decrement operator.
- c) What is Array? Explain.
- d) Write a program to find factorial of a given number.
- e) Write a program to find sum of first n numbers.

## Q4) Attempt Any Four of the following (Out of Five): $[4 \times 4 = 16]$

- a) What is function? Explain types of function.
- b) State and explain any four string functions used in C.
- c) Explain if ...... else control statement.
- d) Write a program to find maximum of 2 numbers.
- e) Write a program to accept any number and display reverse digit of entered number.

## Q5) Write a short note on any Two of the following (Out of Three):

 $[2 \times 3 = 6]$ 

- a) Pointer.
- b) for Loop.
- c) Data Types.



Total No. o	f Questions	:	5]
-------------	-------------	---	----

PA-1959

SEAT No. :	SEAT No.	:
------------	----------	---

[Total No. of Pages : 3

## [5954]-104 F.Y. B.B.A. (C.A.)

## CA - 104 : DATABASE MANAGEMENT SYSTEM (2019 Pattern) (CBCS) (Semester - I)

Time: 2½ Hours] [Max. Marks: 70

Instructions to the candidates:

- 1) All questions are compulsory.
- 2) Figures to the right indicate full marks.

#### Q1) Attempt any Eight of the following:

[16]

- a) What is File? Enlist types of files.
- b) Define Data and Information.
- c) What is Generalization? Give Example.
- d) Explain the use of MIN 0 with example.
- e) Define Attribute and Tuple.
- f) What is RDBMS?
- g) What is SQL? Enlist two types of SQL Commands.
- h) What is Deletion Anomaly?
- i) Explain Logical Data Independence.
- j) Define Super Key.

### Q2) Attempt any Four of the following:

[16]

- a) Explain in detail Sequential File Organization.
- b) What is DBMS? Explain applications of DBMS.
- c) Explain any four data types in SQL.
- d) Explain CREATE TABLE command with syntax and example.
- e) Explain functional dependency with example.

P.T.O.

#### Q3) Attempt any Four of the following:

[16]

a) Consider the following Entities and Relationships & solve the queries:

**Department** (dept\_no, dept\_name, location)

Employee (emp\_no, emp\_name, address, salary, designation)

Relation between Department and Employee is **One to Many**.

- Find the name of department whose salary is above 10000.
- Display list of employees having designation 'CLERK'.
- b) Consider the following Entities and Relationships and solve the queries:

**Donor** (donor\_no, donor\_name, city)

**Blood\_Donation** (bid, blood\_group, quantity, date\_of\_collection)

Relation between Donor and Blood\_Donation is **One to Many**.

**Constraint**: Primary key, blood\_group should not be null.

- Display total blood quantity collected on 25<sup>th</sup> December 2013.
- Display total blood donated by each donor.
- c) Consider the following Entities and Relationships and solve the queries :

Bus (bus\_no, capacity, depot\_no)

**Route** (rout\_no, source, destination, no\_of\_stations)

Relation between Bus and Route is Many to One.

**Constraint:** Primary key.

- Find out the route details on which buses whose capacity is 20 runs.
- Display number of stations from 'Chinchwad' to 'Katraj'.
- d) Consider the following Entities and Relationships and solve the queries :

Musician (mno, mname, addr, phno)

**Album** (title, copy\_right\_dae, format)

Relation between Musicians and Album is One to Many.

**Constraint:** Primary key.

- Display all albums composed by 'A R Rehman'.
- Display musician details who have composed Audio album.
- e) Consider the following Entities and Relationships & solve the queries :

**Book** (Book\_no, title, author, price, year\_published)

Customer (cid, cname, addr)

Relation between Book and Customer is Many to Many.

**Constraint :** Primary key, price should be >0.

- Display author wise details of book.
- Display customer name that has purchased more than 3 books.

#### Q4) Attempt any Four of the following:

[16]

- a) Explain Advantages and disadvantages of Indexed file organization.
- b) Write a note on Data Views.
- c) Explain the following SQL commands with syntax and example:
  - i) DROP TABLE
- ii) UPDATE
- d) Consider the following Entities and Relationships and solve the queries:

**Employee** (emp\_id, emp\_name, address)

Investment (inv\_no, inv\_name, inv\_date, inv\_amount)

Relation between Employee and Investment is **One to Many**.

**Constraint :** Primary key, inv\_amount should be > 0.

- Display employee details who have invested more than 100000.
- Display employee wise total investment amount.
- e) Consider the following Entities and Relationships& write queries for following.

**Property** (pno, desc, area, rate)

Owner (owner\_name, addr, phno)

Relation between owner and Property is **One to Many**.

- Display owner details having rate of property less than Rs. 20,00,000.
- Display owner name having maximum no. of properties.

### Q5) Write short notes on any Two of the following:

**[6]** 

- a) Normalization
- b) E-R Model.
- c) SQL and Types of SQL



Total I	No. o	f Ques	tions	:	5]
---------	-------	--------	-------	---	----

SEAT No. :	AT No. :	
------------	----------	--

**PA-1960** 

[Total No. of Pages: 4

## [5954]-105 F.Y. B.B.A. (CA) (Semester - I) BUSINESS STATISTICS (CA-105)

(2019 Pattern)

		(201) I attern)
Time: 2	½ <b>H</b>	ours] [Max. Marks : 70
Instructio	ons to	the candidates :
1)	All	questions are compulsory.
2)	Figu	ures to the right indicate full marks.
3)	Note	ations & abbreviations have their usual meaning.
4)	Sim	ple calculator is allowed.
<i>Q1</i> ) A)	Fill	in the blanks: [10]
	i)	The degree to which numerical data tend to spread about an average value is called the
	ii)	$\Sigma X$ means
	iii)	Classification method in which upper limit of interval is same as of Lower limit class interval is called
	iv)	Summary and Presentation of data in tabular form with several non-overlapping classes is referred as
	v)	diagrams are graphs of the data that are helpful in displaying the relationship between variables.
B)	Tru	e of False: [6]
	i)	The coefficient of determination can take on a value between $-1 \& +1$ .
	ii)	A series has its mean as 15 and its coefficient of variation as 20, its standard deviation is 10.
	iii)	If $\overline{X} = 20$ , M = 18.5, then Z = 15.5

<b>Q2</b> )	Atte	mpt any fo	pt any four of the following: [16]											
	a)	Marks		10		20		30		40		50		
		No. of St	udent	s 8		10		20		15		7		
		Computer	Arith	meti	c Me	an								
	b)	Calculate	the S.	.D. aı	nd C.	V. fro	m th	e follo	wing	:				
		14, 8, 11,	14, 8, 11, 10, 13, 16, 5, 9, 12, 2											
	c)	Calculate	coeff	ïcien	t of c	orrela	ition	for the	follo	wing	g data	:		
		X: 2	3	4	5	6	7	8						
		Y: 4	7	8	9	10	14	18						
	d)	In a simple was received	•	y abo	ut cof	ffee ha	abit ii	n two to	owns	the fo	ollowi	ng in	forma	ation
		Town A: non-coffe						coffee	drin	kers	were	45%	and 1	male
		Town B: non-coffe form.												
	e)	Compute	the m	ode f	rom	the fo	llow	ing dat	a:					
		Size	2	3	4	5	6	7	8	9	10	11	12	13
		Frequenc	y 3	8	10	12	16	14	10	8	17	5	4	1
	f)	Calculate	Rang	e and	l its c	oeffic	cient	from th	ne fol	lowi	ng da	ta:		
		53, 46, 18	8, 16,	75, 8	4 and	1 28								
<b>Q</b> 3)	Atte	empt any four of the following: [16]												
	a)	Use a bar	diagra	am to	repr	esent	the f	ollowi	ng da	ata :				
		Year:			1983	19	84	1985	198	66	1987			
		Profit of a	a :		2.5	2.0	)	1.0	2.8		3.0			
		company												
		(In Lakhs	₹)											
	b)	Arithmeti									_			that

c)	Computer the quartile deviation and its coefficient from the following data:
	100, 24, 14, 105,21, 35,106, 16,100, 72, 68, 103, 61, 90, 20

d) find correlation coefficient between X and Y, given that :  $n = 25 \Sigma x = 75$ ,  $\Sigma y = 100$ ,  $\Sigma x^2 = 250$ ,  $\Sigma y^2 = 500$ ,  $\Sigma xy = 325$ 

e) Find Median for the following data:

f) Explain the Degree (strength) of correlation

#### **Q4**) Attempt any four of the following:

[16]

- a) Define statistics. Explain the scope of statistics.
- b) Find the mid-point and width of each class given the classes below 10, 10-20, 20-40, 40-60, 60-70 above 70
- c) Draw a histogram to represent the following frequency distribution

No. of forms: 12 38 16 5 3

- d) Write a note on Scatter Diagram.
- e) Two workers on the same job show the following results over long period of time:

	Worker 'A'	Worker 'B'
Mean time of completing	30	25
the job (in minutes)		
Standard Deviation	6	4

- i) Which worker appears to be more consistent in the time he requires to complete the job? Why?
- ii) Which worker is faster in completing the job? Why?
- f) Explain the different parts of statistical table

**Q5**) Attempt any one of the following:

**[6]** 

a) From the data given below, find the regression equations:

i) Y on X

ii) X on Y

Marks: (Economics) Marks 

(Statistics)

b) Calculate mean, median and mode from the following data:

Monthly salary: 400 600 800 1000 1200 1400 1600 (Less than)

No. of Workers: 0 4 14 33 45 49 50

Total No. of Questions: 7]		SEAT No.:	
PA-1961	[F0F4] 204	[Total	No. of Pages : 3

## [5954]-201

## **F.Y. B.B.A.** (**C.A.**)

		HUMAN RESOURCE		
		(2019 Pattern) (		
Time: 2	½ Hour	· · · · · · · · · · · · · · · · · · ·		[Max. Marks : 70
Instructi	ions to	the candidates:		
1)		Q.2 are compulsory.		
2) 3)		any 3 questions from Q.3 to Q.7. es to the right indicate full mark		
		e correct option:	. <b></b>	[16]
<b>a</b> )		_	esource	es with a managerial orientation
α)		noney.	CSOUICE	with a managerial offentation
	i)	Autocratic model	ii)	Custodial model
	iii)	Collegial model	iv)	Supportive model
b)	Fun	damental concepts of OB re	volve a	around
	i)	Nature of human beings	ii)	Working of human beings
	iii)	Both (i) & (ii)	iv)	None of above
c)	Wh	at is the most important purp	ose of c	liversity training?
	i)	Improve communication sk	ills ii)	Increase workplace harmony
	iii)	Increase tolerance	iv)	Increase cultural knowledge
d)		refers to any alteration tha	at occur	rs in total work environment.
	i)	Organisational change	ii)	Organisational stress
	iii)	Organisational conflict	iv)	None of the above
e)	Wh	ich of the following is not jol	o relate	d stress?
	i)	Role ambiguity	ii)	Work overload
	iii)	Work underload	iv)	None of the above
f)	Hur	man Resource management is	s m	anagement function.
	i)	Strategic	ii)	Auxiliary
	iii)	Supporting	iv)	Ancillary
g)		ployees in are mostly tree exchanged for wages or salar		an economic man for his services
	i)	Human resoursce Manageme		Personnel Management
	iii)	Financial Management	iv)	· ·

h)	Rela	. •		opment. Compensation, Human functions of Human Resources
	i)	Managerial	ii)	Operational
		Financial	iv)	-
i)	Han			egal functions are role of
	i)	HRD	ii)	Administrative
	iii)	Industrial Relation	iv)	Development
j)		_ is process by which an organ n power position to its desired		on should move from its current power position.
	i)	Human Resource Planning	ii)	Human Resource Management
	iii)	Training	iv)	All the above
k)		_ involves a collection of job r	elated	d information.
	i)	Job description	ii)	Job analysis
	iii)	Job designing	iv)	All the above
1)	Emj	ployee referral is		
	i)	an internal source of recruitm	ent	
	ii)	an external source of recruitm	nent	
	iii)	Both (i) & (ii)		
	iv)	None of the above		
m)	A ca	ampus placement is the examp	le of	method of recruitment.
	i)	Direct	ii)	Indirect
	iii)	Internet	iv)	Third party
n)		der method an imaginar; ed to act on it.	y situ	ation is created and trainees are
	i)	Lectures	ii)	Case-study
	iii)	Simulation	iv)	Job Instruction
o)		methods of training which a ployees away from the field of		dopted for the development of ob are known as methods.
	i)	On the job	ii)	Off-the-job
	iii)	Both (i) & (ii)	iv)	None of above
p)	The	following is (are) the benefit(s	) of tr	raining.
	i)	Increase productivity	ii)	Reduce accidents
	iii)	Reduce supervision	iv)	All the above

Q2)	Write	e short notes on (Any four):	[24]
	a)	Methods of Recruitment.	
	b)	Internal sources of Recruitment.	
	c)	Autocratic model	
	d)	Effects of stress.	
	e)	Scope of organisational behaviour.	
	f)	Recent Trends in Training.	
Q3)	Wha	t is cultural diversity? Explain the strategies for managing vrsity.	workforce [ <b>10</b> ]
<b>Q4</b> )	Defin	ne selection? Explain the steps involved in selection process.	[10]
Q5)		t do you mean by Human Resource Planning? Explain the impoplanning?	ortance of [10]
<b>Q6</b> )	Defin	ne "HRM".Explain the objectives of HRM.	[10]



Q7) What is "Training & Development"? Explain any four methods of off-the-job



[10]

training methods.

<b>Total No. of Questions : 4</b> ]	SEAT No. :
PA-1962	[Total No. of Pages : 3

## [5954]-202

## First Year B.B.A. (C.A.)

## CA - 202 : FINANCIAL ACCOUNTING (CBCS 2019 Pattern) (Semester - II)

Time: 2½ Instruction			ndida	tas.		[Max. Marks : 70
1) 2) 3)	All qu Figur	estion es to t	s are he rig	compulsory. tht indicate full marks. culator is allowed.		
<b>Q1</b> ) A)	a)		in the	e blanks.	1	[5]
		i)		is an art of recording in th	e boo	oks of accounts in the
				netary term.	2)	Dooldrooming
				Cost Accounting	2)	1 0
		::)	3)	2	4)	Taxation
		ii)		owner of a business is called a		
			1)	Creditors	2)	Debtors Proprietor
		;;;)		Employee	4) bo no	Proprietor
		iii)		account of a person which may		-
				son or representative group	p or	person is referred
				 Real account	2)	Nominal account
			,	Personal	4)	Debtors
		iv)	,	amount contributed by the par	,	
		11)			tilois	in the min is known
			1)	Loan	2)	Reserve
			3)		4)	Capital
		v)		ance Sheet is	•,	Cupium
		• /	1)	An account	2)	A statement
			3)	A report	4)	A draft
	b)	Stat	,	ether the following statements a		
	,	i)		cher is created by an accountar		
		ii)		ods given as free samples		ould be debited to
				ertisement account		
		iii)	The	debts which are to be paid in	a sho	ort period of time are
		ĺ		ed as current liabilities		•
		iv)	Deb	oit what comes in and credit v	vhat	goes out is a rule of
		•		ninal account		_
		v)	Cas	h in an example of fixed asset		

Match the following pairs. [5] c) Group A Group B Fixed Assets Branch of Accounting i) 1) ii) Accounting Software Secondary Book 2) iii) Cost Accounting 3) Tally ERP 9.0 Goodwill iv) Ledger 4) Intangible Asset v) 5) Plant and Machinery B) Write short notes (Any Three). [15] a) Subsidiary books. b) Accounting Software Packages. c) Role of computers and Financial application. d) Accounting Process. e) Importance of Bank Reconciliation Statement. Q2) Journalise the following transactions in the books of M/s Poonawala, Pune for March 2022. [12] March 2022. 1. Mr. Poonawala started business with cash Rs. 1,50,000. 2. Purchased Machinery for cash Rs.70,000. Bought goods for cash Rs. 20,000 and for credit Rs. 10,000 from KK 8. retail store. 14. Sold goods to JK Brothers Rs. 18,000 and cash sales Rs. 8,000. 18. Withdrew Rs. 20,000 for personal use. 22. Paid Rs. 10,000 to KK retail store. 26. Received Rs. 18,000 from JK Brothers.

30. Paid salaries Rs. 5,000.

c) Dividends on shares collected by banker 4,600

d) Interest charged by the bank recorded twice in the Cash Book 1,000

e) Check deposited as per Bank Statement not entered in Cash Book 6,800

f) Credit side of the Bank column in Cash Book cast short 2,000 g) Clubs dues paid by bank as per standing instruction not recorded in Cash Book. 2,400

h) Uncredited check due to outstation. 7,800

Q4) Following is the Trial Balance extracted from books of M/s Sahil as on 31st March 2022. Prepare Trading, Profit and Loss Account for the year ended 31st March 2022 and Balance sheet as on that date.[16]

Particulars	Dr.	Particulars	Cr.
Land and Building	1,15,000	Capital	2,00,000
Drawing	68,000	Loans	65,000
Plant and Machinery	75,000	Sales	1,00,000
Furniture and Fixture	17,500	Commission Received	4,500
Purchases	25,000	Sundry Creditors	60,000
Opening stock	25,000	Interest	13,000
Establishment charges	15,000	Provision for bad debts	2,000
Bad debts	1,500		
Wages	3,500		
Insurance	1,000		
Debtors	28,000		
Cash at Bank	15,000		
Cash in Hand	5,000		
Salaries	50,000		
	4,44,500		4,44,500

#### Adjustments:

- a) The closing stock is valued at Rs. 32,000.
- b) Outstanding wages are Rs.500.
- c) Prepaid insurance is Rs. 400.
- d) Depreciation Land and Building and Plant and Machinery @ 10%.
- e) Make a provision of 5% on debtors for bad debts.



Total No. o	of Questions:	5]
-------------	---------------	----

P	. 4	١.	-	4	<b>n</b>		1
ν	' Δ	١.	_	ľ	u	h	-
	1	7		L,	_	v	J

SEAT No.:	
	<u> </u>

[Total No. of Pages: 3

## [5954]-203 F. Y B.B.A. (C.A.)

## **CA-203: BUSINESS MATHEMATICS**

		(2019 Pattern) (Semester - II)		
Time : 2½	2 Hou	[Max. Marks: 70		
Instruction	ns to	the candidates :		
1)	All	questions are compulsory.		
2)	Nea	t diagram must be drawn wherever necessary.		
3)	Figi	ures to the right indicate full marks.		
<i>Q1</i> ) A)	Fill	in the blanks:- $[5 \times 2 = 10]$		
	i)	If the interest is calculate on the principal alone, then it is known as		
		(Simple Interest, Compound Interest, Annuity)		
	ii) The price at which the articles are sold is called the pric			
(Cost, Selling, Purchase)				
	iii)	If A and B matrices are of same order and $A+B=B+A$ , this law is known as		
		(Commutative law, Associative law, Cramer's law)		
	iv)	The variables that help to decide the outcome are called		
		(Decision variables, Dependent variables)		
	v)	The column, which is introduced in the transportation matrix to balance the rim requirements is known as		
		(Key Column, Idle column, Dummy Column)		
B)	Stat	the whether the following statement are true or false $[3 \times 2 = 6]$		
	i)	Market value of the share is the current price at which the share is being traded in stock market.		
	ii)	The inverse ratio is the ratio in reverse order of the original ratio.		
	iii)	The zero matrix is not the additive identity for the matrices.		

Q2) Attempt any Four of the following (Four out of Six):

 $[4 \times 4 = 16]$ 

- a) Find fourth proportional to 6,8,10.
- b) Find the simple interest on ₹ 7000 at 50/3% for 9 months.
- c) A TV set is sold for ₹ 36,375 at a loss of 15% find the purchase price of the TV set.
- d) Find the number whose 30% is 360.
- e) What are the components of Linear programming?
- f) Define the term matrices?

Q3) Attempt any Four of the following (Four out of Six):

 $[4 \times 4 = 16]$ 

- a) What is percentage and how it is calculated?
- b) Find A + B = B + A When matrices.

$$A = \begin{bmatrix} 1 & 2 \\ 2 & -1 \end{bmatrix}, B = \begin{bmatrix} 3 & 1 \\ -1 & -2 \end{bmatrix}$$

- c) What we mean by objective function in LPP.
- d) An Amount of ₹ 1,200 is deposited in a bank paying an annual interest rate of 5% compounded yearly. Find the Balance after 2 years.
- e) What is transportation model?
- f) Find out the total income received from the investment. If Rohit invested ₹ 99,000 in 7½% Stocks at Rs. 81½ plus brokerage of ₹ 1.

Q4) Attempt any four of the following (Four out of six)

 $[4 \times 4 = 16]$ 

- a) At what price will ₹ 4,250 buy shares worth ₹ 5000? (They are ₹ 100 shares).
- b) A person invests his money in bank worth ₹ 24,000. It is increasing at the rate of 5% every year. What will be the growth in his investment after 3 years?
- c) What is the 20% of 150?
- d) Alfred buys an old scooter for ₹ 4700 and spend ₹ 800 on its repairs. If he sells the scooter for ₹ 5800, his gain percent is what?
- e) Write the steps of LPP formulation
- f) Explain the North west corner method (NWCM) method of TP?

## **Q5**) Attempt any one out of two:

 $[1\times 6=6]$ 

a) Determine an initial basic feasible solution to the following transportation problem by using VAM method.

	Destination								
		$D_1$	$D_2$	$D_3$	$D_4$	Supply			
	A	11	13	17	14	250			
Source	В	16	18	14	10	300			
	С	21	24	13	10	400			
	Demand	200	225	275	250				

OR

b) Compute the inverse of A:-

Where 
$$A = \begin{bmatrix} 0 & 1 & 2 \\ 1 & 2 & 3 \\ 3 & 1 & 1 \end{bmatrix}$$

$$\nabla \nabla \nabla \nabla$$

<b>Total No</b>	o. of Q	uestions	:	5]
-----------------	---------	----------	---	----

PA-1964	
---------	--

SEAT No.	:	
----------	---	--

[Total No. of Pages : 3

## [5954]-204 B.B.A. (CA)

## CA-204: RELATIONAL DATABASE MANAGEMENT SYSTEM

(2019 Pattern) (Semester - II)

Time: 2½ Hours] [Max. Marks: 70

Instructions to the candidates:

- 1) All questions are compulsory.
- 2) Figures to the right indicate full marks.
- Q1) Attempt any EIGHT of the following (Out of TEN):  $[8 \times 2 = 16]$ 
  - a) Define RDBMS?
  - b) Define Database?
  - c) Write syntax for Nested if statement in PLSQL with example.
  - d) What is PLSQL Block?
  - e) Define serializability?
  - f) What is schedule? List types of schedule
  - g) What is transaction?
  - h) What is procedure?
  - i) What is trigger?
  - j) Define upgrading and downgrading?

#### **Q2)** Attempt any FOUR of the following (Out of FIVE): $[4 \times 4 = 16]$

- a) Explain difference between DBMS and RDBMS in detail.
- b) What is deadlock? Explain methods to prevent deadlock.
- c) What is exception handling? Explain predefined exceptions.
- d) Explain two-phase locking protocol in detail.
- e) Explain RDBMS packages in detail.

### Q3) Attempt any FOUR of the following (Out of FIVE): $[4 \times 4 = 16]$

- a) What is function? Explain with an example.
- b) List and explain properties of transaction.
- c) Explain % type and % row type with an example.
- d) Explain failure classification in detail.
- e) What is log? Explain log based recovery.

### Q4) Attempt any FOUR of the following (Out of FIVE): $[4 \times 4 = 16]$

a) Consider the following relational database.

Customer (cno, cname, city.

Account (ano, acc-type, balance, cno)

Define a trigger that restricts insertion or updation of account having balance less than 100.

b) Consider the following transaction. Give two non-serial schedules that the serializable:

Tl	T2
Read(X)	Read(Z)
X = X + 100	Read(X)
Write (X)	X= X -Z
Read (Y)	Write (X)
Read(Z)	Read(Y)
Y=Y+Z	Y = Y - 100
Write(Y)	Write(Y)

c) Following is the list of events in an interleaved execution of set T1, T2, T3 and T4. Assuming 2PL (Two Phase Lock). Is there a deadlock? If yes, which transactions are involved in deadlock?

Time	Transaction	Code
$t_1$	T1	Lock(A,X)
t <sub>2</sub>	T2	Lock(B,S)
t <sub>3</sub>	Т3	Lock(A,S)
t <sub>4</sub>	T1	Lock(C,X)
t <sub>5</sub>	T2	Lock(D,X)
t <sub>6</sub>	T1	Lock(D,S)
t <sub>7</sub>	T2	Lock(C,S)

d) Consider following relational database

Doctor (dno, dname, dcity)

Hospital (hno, hname, hcity)

Doct-Hosp (dno, hno)

Write a function to return count of number of hospitals located in Mumbai City

e) Consider the following relational database:

Customer (cno, cname, city)

Loan (lno, lamt, no\_of\_years, cno)

Write a procedure to display total loan amount from Mumbai City.

## Q5) Write a short note on ANY TWO of the following (Out of THREE): $[2 \times 3 = 6]$

- a) Functions in PLSQL.
- b) Concurrent Execution.
- c) Control Statements in PLSQL.



Cotal No. of Questions : 5] SEAT No. :	Total No. of Questions : 5] SEAT No. :	
--	--	--

PA-1965 [Total No. of Pages : 3

#### [5954]-205

## F.Y. B.B.A. (CA) (Semester - II) CA-205: WEB TECHNOLOGY (HTML-JS, CSS)

**(2019 Pattern)** 

Time: 2½ Hours] [Max. Marks: 70

Instructions to the candidates:

- 1) All questions are compulsory.
- 2) Figures to the right indicate full marks.
- Q1) Attempt any Eight of the following (out of Ten):

 $[8 \times 2 = 16]$ 

- i) List any four tags used in HTML.
- ii) Explain javascript array methods.
- iii) Define CSS.
- iv) Explain HTTP request & response message.
- v) Explain <background> tag.
- vi) List any two benefits of CSS.
- vii) Define website.
- viii) What is browser?
- ix) Explain < form > tag.
- x) Define:
  - a) FTP
  - b) IP
- **Q2**) Attempt any four of the following: (out of five)

 $[4 \times 4 = 16]$ 

- i) What is CSS? Explain with its types.
- ii) Explain HTML structure.

- iii) Explain the use of <frameset> tag with an example.
- iv) Explain ordered and unordered list
- v) Explain any 4 tag in HTML with syntax.
- **Q3**) Attempt any four of the following: (out of five)

 $[4 \times 4 = 16]$ 

- i) Explain the working of caching.
- ii) Explain concepts of effective web design in details.
- iii) Explain client side and server side Image mapping.
- iv) Write a Javascript program to accept a number from user and check whether it is Armstrong number or not.
- v) Write a Javascript to create an image slider (use array to store image)
- **Q4**) Attempt any four of the following: (Out of Five)

 $[4 \times 4 = 16]$ 

- i) Write a note on FTP.
- ii) Explain Dom.
- iii) Write a Javascript code to accept a number 'n' from user and display first 'n' terms of Fibonacci series.
- iv) Write HTML Code to Create following table.

Course	Fee structure			Year
	Fy	Sy	Ty	
B.A.	20,000	25,000	30,000	2019
B.Com.	15,000	20,000	25,000	2020
B.Sc.	25,000	30,000	35000	2021

- v) Write HTML code which generate the following output and display each element of list in different size, color and font
  - o Coffee
  - o Tea
    - □ Black Tea
    - □ Green Tea
      - 1) Africa
      - 2) China

**Q5**) Attempt any two of the following: (out of three)

 $[2\times3=6]$ 

- i) Write short note on internet.
- ii) Explain embedding Audio, video in HTML.
- iii) Explain Date objects in Javascript.

