

ST. JOSEPH'S DEGREE & PG COLLEGE

Autonomous, Affiliated to Osmania University

DEPARTMENT OF BUSINESS MANAGEMENT

MBA I Year I Semester Internal – II Examination, May 2021 ACCOUNTING FOR BUSINESS

Program	mme:		MBA			Date:	26-05-2021				
Subject	Code/Course C	Code:	MBA	2020-103	1		Duratio	n:	1 Hr	30 Mins.	
Subject	Name/Course N	Name:	Accou	nting for	Business		Max. M	arks:	30 M	larks	
Name o	of the Student:						Roll No:				
Q.NO				QUES	ΓΙΟΝ	Marks	BTL				
1	Explain the in	nportanc	ce of Li	quidity r	atios.					3	BL2
2	List out the ob	ojectives	s of Rat	io Analy	sis			3	BL1		
3	What are the u	uses of a	a funds	flow stat	ement?					3	BL5
4	"A Cash flow balances betw	v statem een bala	ent is 1 ance sh	equired eet dates	to explain o ."Explain th	char 1e st	nges in c atement.	ash acc	ount	3	BL5
5	Discuss the ch	naracteri	istics of	margina	l costing .					3	BL6
	•			SE	CTION -B	8					
	Answer all qu	uestions	5				(2 QX	5 Marl	cs= 1() Marks)	
6. a.	What is Finan	cial Sta	tement	Analysis	? Elaborate	e on	different	metho	ds of		BL6
	the Financial S	ysis.	_								
		OI	{				010				
b.	Given below 1	Sheet of	VS LTD to	r th	e years 2	017& 2	2018.		DI 4		
	Analyze the	Inanc Dalamaa	ial po	Sition of	t the com	ipan	iy by F	reparir	ig a		BL4
	Comparative	Balance Doution	Sneet a	and inter	$2017(\overline{F})$	20	10(J)				
	-	<u>Capital</u>	lars		$\frac{2017(\chi)}{10.000}$	2 0	0.000				
		Capital			10,000	1	0,000			5	
		Reserve	es		500		600				
		Debentu	ures	s -			100				
		Land &	Buildir	ıg	10,000	6	5,000				
		Creditor	rs		200		-				
		Bills pa	yable		400		300				
	-	Machin	ery		1,000	3	3,000				
		Current	Assets		100	4	2,000				
7. a.	Distinguish be	etween I	Funds F	Flow Stat OR	ement and (Casł	n Flow St	tatemen	ıt.		BL6
b.	Estimate the V	Norking	g Capita	l of AB	Ltd by Prep	parii	ng a State	ement o	f		BL6
	Changes from	the info	ormatio	n given b	below:						
	LIABILITES 2		017 (₹)	2018 (₹)	ASSET	'S	2017 (₹)	201 (₹	1 8		
	Equity Share	80),000	80,000) Fixed		60,000	50,0	00	5	
	Capital				Assets						
	Preference		-	20,000) Debtor	s	80,000	48,0	00		
	share capital										
	General	4,	,000	4,000	stock		20,000	70,0	00		
	Reserve										
	P & L	8,	,000	10,800) Prepaic	1	2,600	1,00	00		

	Account			expenses				
	Debentures	22,000	25,600	cash	400	7,000)	
	Creditors	24,000	26,000					
	Bank	25,000	9,600					
	overdraft							
	Total	1,63,000	1,76,000		1,63,000	1,76,0	00	
		S	ECTION -(C(CASE ST	UDY)			
	Compulsory Quest	ion- (Unit-5)			(1 () X 5 Ma	arks = 5 N	Iarks)
8. a.	From the follow		BL3					
	earned during the							
	Fixed cost: 50,00							
	Variable cost: R	s.10 per unit						
	Selling price: Rs	.15 per unit						
	Output level: 1, :	50,000 units						
			OR				5	
b.	You are required	d to calculat	e the break	keven point	in the foll	owing	5	BL3
	cases. Apply the	formulae.						
	The fixed cost for							
	Variable cost per	4/-						
	Estimated sales f	for the perio	d are valued	d at Rs.2, 00),000.			
	The number of	units involve	ed coincide	s with the	expected v	olume		
	of output. Each u	unit sells at H	Rs: 20/					



ST. JOSEPH'S DEGREE & PG COLLEGE

(AUTONOMOUS)

MBA I Year – I Semester (2020-22) Main Examinations, June - 2021

BUSINESS LAWS

Prog	gram	me:		MBA				Date: 18-		18-00	-06-2021		
Sub	ject C	<u>code/Course cod</u>	e:	MBA2	2020-106			Duration	n:	3 Ho	urs		
Sub	ject N	ame/Course Na	me:	Busin	ess Laws			Max. Ma	arks:	60 M	larks		
Nan	ne of t	the Student:						Roll No.	:				
	Bloom	's Taxonomy	В	L1	BL2	BL3		BL4	BL	5	BL6		
		Level	Rem	ember	Understand	Apply	I	Analyze	Evalu	ate	Create		
			l L	SECTI	ON – A (50	Marks)					Bloom's		
											Level	Marks	
	A) Illustrate the essential elements of a valid contract.									BL2	10 M		
1	OR									.0	DI 1	10 3.6	
	B)	What are the va	rious i	remedie	es available t	o a party in ca	ise	of breach	of contr	act?	BLI	10 M	
		Evelsin heisfly	4100	Cantura	t of Access			ant of an			DI 2	10 M	
	A)	Explain orienty	the	Contrac	ct of Agenc	y. How a co	ntra	act of age	ency do	bes is	BL2	10 M	
2		terminateu?				OR							
	B)	Identify the right	nts and	duties	of an indem	nity holder wl	nen	sued.			BL3	10 M	
	/	, ,				2							
	A)	Distinguish the	variou	is Nego	tiable Instru	ments & state	the	eir features	s.		BL4	10 M	
3						OR							
	B)	Compare & Con	ntrast	Sale an	d Agreement	to sell in det	ail.				BL5	10 M	
	1		<u> </u>										
4	A)	Determine how	the A	rticles of	of Associatio	n can be alter	ed i	in detail			BL5	10 M	
4	B)	Explain the dut	ies an	d proce	edure of appo	UK vintment of the	م د	irectors			BL5	10 M	
	D)	Explain the du	ites un	u proce	dure of uppo			neetons .			BLS		
	A)	Explain the fun	ctions	of state	e and Central	Redressal ag	enc	ies.			BL5	10 M	
		I				OR					1		
5	B)	Determine									BL5	10 M	
		i) Laws relation	ting to	Intelle	ctual Propert	y Rights.							
		ii) Argument	s favo	oring Co	orporate Soci	al Responsibi	lity	<i>.</i>					
				SEC	TION – B (1	0 Marks) - C	CAS	SE STUD	Y				
6	A)	CASE STUDY	(CON	MPUL	SORY QUE	STION)					BL5	10 M	
		A retailer enter	s into	a contr	act to cell of	rv to a huver	T	he celler v	vac cum	nced			
		to deliver the T	V on	Wedne	esday The n	rofit for the r	. 1 etai	ler on eac	th TV s	ale is			
		INR 5000 The	huver	refuse	d to proceed	further and in	nfor	med the s	ame to	seller			
		on Tuesday. Th	e cont	ract is f	erminated.	further und fi		intea the s	unie to	senter			
		Questions:											
		1. Which party has failed to perform the contract?											
1		2. What type of Breach is it?											
		3. What rig	ghts ar	e availa	able to the ag	grieved party	?						
		4. What ha	is the s	seller lo	ost?								
		5. What w	ould h	ave hap	ppened if the	buyer had pa	id t	for the TV	?				
		What da	mages	s should	d be awarded	to the seller?							



ST. JOSEPH'S DEGREE & PG COLLEGE (AUTONOMOUS)

MBA I Year – I Semester Main Examinations, June 2021 INDIAN ETHICS & BUSINESS ETHOS

Time: 2 Hours

Maximum Marks: 30

Subject Code: MBA2020-109

Note:

- 1. This question paper contains two sections A & B
- 2. The Section-A consists of 5 questions with internal choice. Answer all the questions
- 3. The Section-B consists of Application Oriented questions

Bloom's Level:

Remember	BL1	Apply	BL3	Evaluate	BL5
Understand	BL2	Analyse	BL4	Create	BL6

Note: Give the level of question as per the Bloom's Taxonomy levels

	SECTION – A (10 Marks)	Bloom's Level	Marks
1.	Answer all the questions: (Answer any five)		
	a) Define Indian Ethos.	BL1	2M
	b) Compare Ethics and Ethos.	BL2	2M
	c) Define Myth. Give example.	BL1	2M
	d) List out the characteristics of Ethical Dilemma.	BL1	2M
	e) Explain Value based Leadership.	BL2	2M

		SECTION – B (20 Marks)	Bloom's Level	Marks
	A)	Define Value based Management & Explain in detail Need, Importance and benefits of VBM.	BL2	[10 M]
1.				
	B)	Explain in detail the 7 Business ethos principles practiced by Indian Companies.	BL4	[10 M]
	A)	Explain various theories of Ethics.	BL2	[10 M]
2.	B)	 You are applying for the job of sales associate. You have just found out that you will be given a personality assessment as part of the application process. You feel that this job requires someone who is very high in extraversion, and someone who can handle stress well. You are relatively sociable and can cope with some stress but honestly you are not very high in either trait. The job pays well and it is a great stepping-stone to better jobs. Questions: 1. How are you going to respond when completing the personality questions? 2. What are the advantages and disadvantages of completing the questions honestly? 	BL5	[10 M]



ST. JOSEPH'S DEGREE & PG COLLEGE (AUTONOMOUS)

MBA I Year – I Semester (2020-22) Main Examinations, June - 2021

MANAGEMENT & ORGANIZATIONAL BEHAVIOUR

Programme: MBA Date:										07-06	-2021		
Sub	ject (Code/Course cod	le:	MBA	2020-301			Duratio	n:	3 Hou	Irs		
Sub	ject I	Name/Course Na	me:	Mana Behav	gement & O iour	rganizational	1	Max. Marks:		60 Ma	arks		
Nan	ne of	the Student:						Roll No.	:				
	Bloor	n's Taxonomy	I	BL1	BL2	BL3		BL4	B	[.5	BL6		
		Level	Ren	nember	Understand	Apply	1	Analyze	Eva	luate	Create		
	SECTION – A (50 Marks)										Bloom's Level	Marks	
	A)	Define Manager	nent a	and expl	ain various f	unctions of M	an	agement.			BL2	10 M	
1	B)	Define Decision decision making	OR fine Decision Making. Differentiate between open & closed models of cision making.										
2	A)	Explain the condemerits.	plain the concept of Centralization & Decentralization with its merits a merits.										
	B)	What is Power?	Ment	tion the	various sourc	tes of Power.					BL1	10 M	
	A)	Explain the Big	Explain the Big 5 Model of Personality.										
3	B)	Discuss Maslow	/s the	orv of N	Intivation	OR					BL5	10 M	
	D)	Elaborate the pr	ocess	of Com	munication						BL6	10 M	
4	11)	Endoorate the pro-	00055		intumention.	OR					DLU		
	B)	Analyze any one	e Lea	dership	style.						BL5	10 M	
=	A)	Determine the fa	actors	which	shape organiz	ational cultur	e.				BL5	10 M	
3	B)	Predict the source	ces of	conflic	t in organizat	ional context.					BL6	10 M	
				SECT	FION – B (10) Marks) - CA	AS	E STUDY	7				
6	A)	Uday Sankar i sometime in a si being in charge him. His next job ass firm. The interv informed that h firm's Madras c settled, had plen	s fro mall o alon signm view t ue hac office.	m Kera office in e of a v nent was ook pla l been s . Uday v friends	and the second selected for the second selected for the second selected for the selected fo	raduating in left this job v ment became well establis y in July 198 he post of sa be working i versed with th	Sc vhe to she 1. ales in	eience he en the resp o much o ed but priv By Septer s represen Madras as local lang	worke oonsibi f a str ately mber h tative s he fe uage.	ed for ility of ain on owned ne was in the lt well	BL5	10 M	

As per the conditions of his appointment, Uday underwent a training programme in Bombay for 3 months after which he was placed in Ahmedabad. He was told

that his stay in Ahmedabad would be for a minimum period of 2 months so that he could learn all the systems and methods of selling.	
Uday had a difficult period in Ahmedabad. There was a communication barrier as he could speak Hindi not Gujarati. He missed his large circle of friends back home.	
QUESTIONS:	
1) Why did Uday Sankar leave his first job and what was his next job assignment?	
2) What were the conditions of his appointment?	



ST. JOSEPH'S DEGREE & PG COLLEGE

(AUTONOMOUS)

MBA I Year – I Semester (2020-22) Main Examinations, June - 2021

MANAGERIAL ECONOMICS

Prog	gram	ne:		MBA			Date:	Date: 16-0		06-2021		
Sub	ject (ode/Course cod	le:	MBA2	2020-105		Duratio	n:	3 Ho	ours		
Sub	ject N	ame/Course Na	me:	Mana	gerial Econo	omics	Max. M	arks:	60 N	larks		
Nam	ne of t	the Student:					Roll No.	:				
]	Bloom	's Taxonomy	I	BL1	BL2	BL3	BL4	BL:	5	BL6		
		Level	Ren	nember	Understand	Apply	Analyze	Evalu	ate	Create		
				SECTI	ON – A (50	Marks)				Bloom's Level	Marks	
	A)	What is the nat	ure an	nd scope	of Manageri	al Economics	s?			BL1	10 M	
1		T		<u> </u>		OR	•. •	0		DIA	10.34	
	B)	Explain the cor	icept (of Increi	mental reason	ning and state	tts important	ce?		BL2	10 M	
		Evalsia Low of	- dama	an 19 C4a	to the ordeter	minanta of do				DI 2	10 M	
2	A)	Explain Law of	dema	and? Sta	tte thee deter	minants of de	inand?			BL2	10 M	
2	B)	Explain elastici	tv of	demand	and its types	<u></u>				BL2	10 M	
	2)		<i>(</i>) 01			•					10 111	
	A)	Discuss about t	he Pro	oduction	n function? E	xplain optimi	zation of two	inputs?)	BL6	10 M	
3	/		-			OR		r				
	B)	Elaborate on La	aw of	Returns	to Scale.					BL6	10 M	
											-	
	A)	List the differen	nt mai	rket stru	ctures and th	eir characteri	stic features?			BL4	10 M	
4	D)	F 1 ' ' 1		• ,•	1 14		1	,•,•		DI 5	10.34	
	B)	Explain price d	eterm	ination	under Monop	ooly & Mono	polistic comp	etition.		BL5	10 M	
	A)	Evaluin the Co	noont	ofNotic	nol Incomo	and its Massa	momonto moth	a da l		DI 5	10 M	
5	A)	Explain the Col	ncept	of Matic	mai income a	OR	irements metr	lous :		BL3	10 M	
	B)	Explain the cor	ncept (of inflat	ion? Write al	bout its causes	s and effects.			BL5	10 M	
	/	1	1	SEC	TION - B (1)	0 Marks) - (ASE STUD	V				
6	A)	CASE STUDY Seetha and M SeeMa's Hom purchasing Fru BigBasket.com other online sh idea to come tru After a keen di and Vegetables schedule to pur in a week and s Questions: a) What do you a seller make b) What do you a scope in th	7 (CO alini e Cu its a (Seet oppin ue. scuss s fror chase to on. thinl e norr thinl e idea	SEC MPUL: are two isine (S nd Veg tha used g. But t ion they n their the Fru c a selle nal prof k about a?	TION – B (1 SORY QUE o good frien SMHC). An etables. The to shop), my hought that r now though and then st its and Vege r in a perfect its or abnorm the two frien	O Marks) - C STION) dds; wanted nd started m by had an id whomefarm.in they may not at about Rythe arting the bu tables an alte competition the al profits in the d's business	to start their hining for the lea of online (Malini used be cost effect u Bazar. Gett usiness. They rnate day and is called a pri he business? idea and expl	Y busine e sourc shopp t to shop ctive for ing the chalke ce taker ain if th	ess of e for ing –) and their Fruits d the s once ? Can ere is	BL4	10 M	

Evaluate

Create

Analyze



Level

ST. JOSEPH'S DEGREE & PG COLLEGE

(AUTONOMOUS)

MBA I Year – I Semester (2020-22) Main Examinations, June - 2021

MARKETING MANAGEMENT

Programme:	MBA			Date:		14-06-2021		
Subject Code/Course code:	MBA	2020-104		Duratio	n:	3 Hours		
Subject Name/Course Name	e: Mark	eting Manag	ement	Max. Marks:		60 Marks		
Name of the Student:				Roll No.	.:			
Bloom's Taxonomy	BL1	BL2	BL3	BL4	BL	.5	BL6	

Apply

Remember

Understand

		SECTION – A (50 Marks)	Bloom's Level	Marks
	A)	What is marketing mix? Explain the elements of Marketing Mix with examples referring to a company.	BL2	10 M
1		OR		
	B)	Name and describe the elements of a company's micro environment with appropriate examples.	BL2	10 M
	A)	Briefly describe the major steps in designing a customer driven marketing strategy.	BL2	10 M
2		OR		
	B)	What is product positioning? Explain the various positioning strategies highlighting examples wherever necessary.	BL2	10 M
	A)	Describe the major steps in the new product development process.	BL2	10 M
2		OR		
5	B)	Create brand development strategies of international products in India with an example.	BL6	10 M
	A)	Explain the characteristics of consumer Behaviour and 7 Os Structure.	BL6	10 M
4		OR		
	B)	Analyse consumer buying behavior towards frozen foods in pandemic.	BL4	10 M
	-			1
	A)	Analyses the Smart mobile service strategies in rural areas.	BL4	10 M
5		OR		
	B)	As a marketing manager create promotional strategies on social media for patanjali products.	BL6	10 M
	-1	SECTION – B (10 Marks) - CASE STUDY		1
6	A)	Maggi Journey Maggi Journey Maggi began its journey in 1869 when Julius Maggi (Julius) (after whom noodles were named) took over the control of hammer mill from his father. When the hammer milling sector was passing through tough times Julius started searching for new opportunities. It was during this time he got in touch	BL5	10 M

with a physician Fridolin Schuler, who had an idea to improve the nutritional level in the labor classes by using pack foods having milled pulses or legumes. In

1884, the first industrially produced leguminous flour was introduced to Swiss market but contrary to expectation, the product failed to achieve success. After Julius returned back to drawing board and created ready to use soups in 1886 and named it Maggi. The product gained wide acceptance and spread globally.

Nestle's Voyage

Nestle journey dates to 1866 when anglo-swiss condensed milk company founded by US

The allegation did give chills to entire instant noodles market in India. But in a competitive market. a loss of one is always a gain for another. The loss of Maggi noodles gave considerable edge to its competitors. The biggest gainer was Sunfeast Yippee noodles who grabbed market share of 33% as compared to 1096 in 2014. Even the launch of Patanjali noodles trying to capture the nostalgic emotions of indigenous product possessed a greater threat to Nestle's Maggi noodles. For Maggi noodles, the north market remains a strong foot hold followed by east and west. The southern market remains the weakest region due to different food habits. Nestle Maggi planned to expand its product portfolio to stay ahead with its competitors by launching new variants of Maggi noodles. Under the current scenario, will Maggi noodles be again its top of the mind position and same trust it has been enjoying since its entry in Indian market.

Maggi: Enmeshed in controversy.

The Drama Unfolds

As a part of routine quality checks, in February 2014 samples of Maggi noodles batch was tested by FDA officials of Barabanki in March 2014 and its revealed High levels of lead and MSG. The results were informed to Nestle in July 2014 which the company challenged therefore the samples were sent to a lab in Kolkata for re-test. The decision of the test came in 2015 which confirmed the earlier outcome. As the news broke out, different states of India started taking precautionary measures. Delhi government banned Maggi for 15 days. Even army and navy canteen asked not to serve Maggi noodles. Subsequently Uttarakhand, Gujarat, Jammu and Kashmir, Tamilnandu, Telangana, Assam, Punjab and Karnataka states too prohibited Maggi sales. Seeing the back lash by the Government on June 5th ,2015 Nestle India announced withdrawal of the product from the Indian market . In July 2015. Nestle India challenged the ban by the central safety food regulator FSSA1 (The food Safety and Standards Authority of India) in Bombay High Court. Also for the first time Nestle India reported a loss to INR640 million in second Quarter that includes July ,August and September earnings. On August 3" 2015 Bombay High Court turned down the order of FASSI on Nestle India's appeal and ordered lab retest of noodles afresh and gave six weeks time to submit the results .

Brand Ambassadors Bears the Brunt Too

In May 2015 actress. Madhuri Dixit got FDA notice for endorsing Maggi noodles and also FSDA ". UP food regulator filed case against Nestle India. A local advocate Sudhir Kumar Ojha filed separate case against Amitabh Bachchan, Madhur Dixit and Preity Zinta in the court of Muzzaffarpur. In June 2015, Bihar court ordered FIR against Maggi brand Ambassadors Amitabh Bachchan, Madhuri Dixit, Preity Zinta, and two Nestle officials (Managing Director of Nestle Mohan Gupta, its Joint Director Sabab Alam).

Impact on Market and Losses Faced by Nestle India

The whole debacle had impacted Nestle India's overall performance. Its net sales dipped by 17.2% for the year ended on December 2015. The net profit dropped to INRS 632.7 million from INR 11,846.9 million and also market shrunk to 42%, 35% lower than the year 2014. The share price also tumbled down to the lowest of INRS 539.8 for the year 2015 and still the scrip is facing high

volatility. It also had to destroy nearly 30,000 tons of Maggi worth INR 4,500 million. The ban affected nearly 1,500 employees directly because company had to suspend production at Pantnagar, Tahliwal, and Rudrapur plant. As on January 2016, the overall Indian market of noodle shrunked to INR 20,000 million from INR 34,000 million.	
 Questions: 1. As a marketing manager what are the promotion strategies needed to recreate the brand to increase the sales in Indian market? 2. What are the changes made in the product packaging to regain the customer's trust? 	



ST. JOSEPH'S DEGREE & PG COLLEGE (AUTONOMOUS)

MBA I Year – I Semester Main Examinations, June 2021 MS Excel for Business

Time: 2 Hours

Note:

Maximum Marks: 30

- 1. This question paper contains two sections A & B
- 2. The Section-A consists of 5 questions with internal choice. Answer all the questions
- 3. The Section-B consists of Application Oriented questions

Bloom's Level:

Remember	BL1	Apply	BL3	Evaluate	BL5
Understand	BL2	Analyse	BL4	Create	BL6

Note: Give the level of question as per the Bloom's Taxonomy levels

	SECTION – A (10 Marks)	Bloom's Level	Marks
1.	Answer all the questions: (Answer All Questions):		
	a) What is the purpose of Sorting and Filtering of data in MS	BL1	2M
	Excel?		2M
	b) Briefly explain about the options in Page Setup.	BL2	2M
	c) Write the syntax for the statistical functions (i) Average and	BL1	2M
	(ii) Standard Deviation.		2M
	d) Write the syntax for the excel formula to calculate the	BL1	
	activity ratio.		
	e) What is auto fill in MS Excel?	BL1	

		Bloom's Level	Marks	
	A)	Explain any three types of charts in MS Excel.	BL4	[10 M]
1.				
	B)	Explain the process of creating a pivot table in MS Excel.	BL4	[10 M]
2.	A)	In MS Excel describe the following functions: (i) Max (ii) Min (iii) Average (iv) Sum Also mention the formulae for the above functions to the following data: X 15 21 17 14 18 19 26	BL3	[10 M]
	B)	Define Financial Modeling. Explain the types of Financial Modeling.	BL4	[10 M]



Paper Code: MBA/SFM/S1/J21/M

ST. JOSEPH'S DEGREE & PG COLLEGE

(AUTONOMOUS)

MBA I Year – I Semester (2020-22) Main Examinations, June - 2021

STATISTICS FOR MANAGEMENT

Prog	gram	me:		MBA								Date:					09-06-2021		
Sub	ject (Code/Course	MBA2020-302								Duration:					3 Hours			
Subject Name/Course Name:				Statistics for Management							I	Max. Marks: 6					Marks		
Name of the Student:												Roll I	No.:						
Bloom's Taxonomy			BL1 BL2					BL3		I	3L4		E	3L5	\Box	BL6			
		Level	Rem	ember	· U	nderst	tand	ŀ	Apply		An	alyze	;	Eva	aluate	\Box	Create		
SECTION – A (50 Marks)															Bloom's	Marks			
ļ		XX 71 4 41	•				1	1	0 E	1.	.1				·,	+	Level		
ļ	A)	What are the various measures of central tendency? Explain the application, merits and														d	BL2	10 M	
ļ	l	demerits of arithmetic mean.																	
1	B)	UK Calculate Karl Pearson's coefficient of skewness of exam scores of a national																	
1	, ,	test written b	y 10 candid	lates.			J. 31		555 (- •/		20010	~ 01	u					
ļ		Γ	Candidate	1	2	3	4	5	6	7	8	9	10				BL2	10 M	
ļ		' F	Score	20	40	60	60	75	80	70	65	70	90	1					
		L												<u> </u>		L 			
ļ	A)	What is prob	ability distr	ibutio	n? Ex	xplain	the t	ypes	of pro	obabi	lity c	listrib	utio	ns.			BL2	10 M	
		F '4 - 1	1 1:4 1 4		h . C 1	11 •	. 1		OR							<u> </u>		1	
2	B)	Fit a binomia	al distributio	on to t	ne to		ig dai	$\frac{1}{2}$		<u> </u>		Į.						1035	
ļ				X c	<u> </u>			2	10	+	4	l					BL3	10 M	
ļ				1	28	0.	2	40			4								
	A)	What is hypo	othesis testi	ng? Ex	plain	the s	teps i	in the	hype	othesi	s tes	ting p	roce	ss.		Τ	BL2	10 M	
2									OR									ı	
5	B)	In a random	sample of	100 ar	ticles	taker	1 fror	n a la	arge t	atch	of an	ticles	, 10	are t	found t	0	BL 4	10 M	
		be defective.	Test the sa	mple _I	oropo	rtion	at 95	% lev	el of	signi	fican	ce.					DLT	10 101	
	A)	(i) Compare	and contras	t one-	way A	4NOV	/A ar	nd tw	o-way	y AN	OVA	۱.				Т	DI 4	10 14	
ļ		(ii) Write a n	note on the (<u>Chi sq</u> ı	<u>uare</u> t	est.											BL4	10 M	
ļ									OR									1	
4	B)	Two horses	A and B w	ere te	sted a	accore	ding t	to tin	ne in	seco	nds i	n run	ning	a p	articula	ar			
		race track wi	th the follo	wing r	esult	s:												5 M	
ļ			H	orse A	1 28	<u>s 30</u>	1 32	2 33	5 33	29	1 34	¥					BL4	5 M	
ļ				orse E	<u>s 29</u>	# 30) 30	<u> 24</u>	27	29	<u>/</u>								
ļ		Test whether	r the two ho	rses ha	ave th	ne san	ne rui	nning	capa	city a	it 5%	LOS	•						
<u> </u>	A)	What is corre	elation? Exp	olain tl	he va	rious	types	of co	orrela	tion.						Τ	BL2	10 M	
									OR										
5	B)	From the fo	ollowing da	ita co	mput	e cor	relati	on c	oeffic	ient	usin	g the	two	o re	gressio	n			
5		coefficients.					<u> </u>			<u> </u>		1					BI 4	10 M	
			L L	X	6	2	2	10	4		8							10 101	
				Y	9		1	5	8		1								
SECTION – B (10 Marks) - CASE STUDY																			
6	A)	Calculate three-yearly moving averages of the production figures given below and draw																	
	Í	the trend line	2:																
		Year		198	5 1	986	198	7 1	988	198	39	1990	19	91	1992		BL5	10 M	
		Production	ı (in tons)) 15 21 30 36 42 46 50 56]						
		Estimate the trend value of the year 2000.																	
								*****	******	k.*									