

SOMAIYA VIDYAVIHAR UNIVERSITY

Dr. Shantilal K. Somaiya School of Commerce and Business Studies

QUESTION PAPERS

BRANCH: Bachelor of Business Management	SEM: I
	JAN-2023

Sr. No.	Subject	Available
1.	131U06N101 – Business Demography & Environmental Studies (A)	
2.	131U06N101 – Business Demography & Environmental Studies (B)	
3.	131U06C101 – Business Environment & Management (A)	
4.	131U06C101 – Business Environment & Management (B)	
5.	131U06C101 – Business Environment & Management (C)	
6.	131U06K101 – Business Communication Skills (A)	
7.	131U06K101 – Business Communication Skills (B)	
8.	131U06C103 – Microeconomics/Business Economics	
9.	131U06C104 – Business Statistics (A)	
10.	131U06C104 – Business Statistics (B)	
11.		
12.		
13.		
14.		
15.		





Semeste	er (August 2022 to De	cember 2022)	
Examination: End Semo			
Programme code: 06 Programme: BBM		Class: FYBBM	Semester: I
Name of the Constituent College: S	K Somaiya College	Name of th Business S	e Department : tudies
Course Code: 131U06N101	Name of the Course Environmental stud		mography &

Question No.		Max. Marks
Q.1(A)	Explain the meaning of term Demographics. Explain demographics segmentation. Give importance of demographics in brief.	15
Q.1 (B)	Give a short note on following- a) Eco tourism b) Green marketing c) Organic marketing	15
Q.2 (A)	What is Natality? Give its types and state reasons for declining Natality rate in INDIA. Or	15
Q.2 (B)	Define – Environment. Explain different types of Environments. Illustrate the Environmental factors affecting business.	15
Q.3 (A)	Explain – BPL. State its causes and give an account on poverty alleviation five years plan in INDIA.	15
	Or	
Q.3 (B)	Read the given Case Study carefully and answer the following questions.	15
	Foaming Lake	
	Bellandur, the largest lake in Bengaluru, caught fire on Thursday (February 16) evening after a garbage mound around it was set ablaze. Dry hyacinth and weed around the lake also caught fire, further intensifying the situation. The possibility of toxic chemicals, which are dumped into the lake, causing the fire to flare up cannot be ruled out. The environment ministry has already ordered a probe into the incident.	
	In May 2015, the foam covering the water surface caught fire and burned for hours. While illegal dumping of garbage on the banks of the lake is a persistent issue, the locals allege that weeds and dry grass are also regularly burnt in the area without supervision by garbage collectors. The extent of the fire was such that it almost engulfed the entire lake. The smoke not only reached a nearby flyover, but also caused a scare among residents and motorists on the busy Sarjapur main road.	

isosta en

	The local authorities are in state of denial and blamed it on the dry grass in the vicinity. The locals have time and again approached the civic authority to stop the discharge of chemicals and other toxic substances from factories and households into the lake. Pollution regularly causes the Bellandur Lake to froth so heavily that the foam is seen on nearby roads. Often, flames are seen leaping off the water because of the phosphorus and oil on the surface. The government has accepted all the recommendations, including the short-term measures like de-weeding, and improving aeration by installing a fountain. The long-term measures, recommended by committee, included installation of sewage treatment plants (STPs) of 90 million litres per day. a Bellandur resident and an IT professional, had started an online petition in 2015 urging government to take immediate action. More than 46,000 people have signed it so far to prevent what can be a carcinogenic disaster. Questions: Q.1 Give causes of Foaming Lake incident? Q.2 Illustrate environmental impact of incident?	
	Q.3 Explain the aftermath of incident?	
Q.4 (A)	Choose the correct alternative out of following.	08
	1. Number of deaths per unit area and per unit time is known as A) Natality B) Mortality C) Sex ratio D) Age pyramid	01
	2labour is primary occupation of INDIA. A) Industrial B) Political C) Agricultural D) Medical	01
	3 Population is the non- working population of a country. A) Independent B) Dependent C) Handicapped D) Student	01
	4 is used to describe the number of females per 1000 males. A) Sex ratio B) Age C) Literacy D) Population	01
	5 controls & solve nation wise environment associated problems.	01
	A) CPCB B) MPCB C) APCB D) TUCB	
	6 credit is financial instrument that allows the holder or energy company to emit one ton of CO2.	01
	A) Money B) Gold C) Business D) Carbon	01
	7. United Nations Framework Convention on Climate Change is known as	01
	A) ANFCCC B) GNFTTT C) NFCFF D) UNFCC	
	8. Which of the following is not biodegradable? A) Vegetable B) Fruits C) Fish D) Aluminium foil	01

Q.4 (B)	State whether the following statements are True or False.	07
	1) Environment is one subject which is global in nature.	01
	2) Kerala has highest literacy rate in INDIA.	01
	3) In the region of tropical forests, the scope for the development of economic activities is very limited.	01
	4) Plant eating animals are known as herbivores.	01
	5) Demographics analysis is the collection and study of data regarding general characteristics of specific populations.	01
	6) The concept of sustainable development is a new concept for Indians.	01
	7) There has been tenfold increase in urban population over 1901-1991	01



		Maria atrovados
ter (August 2022 to D	December 2022)	IC Programmos)
2. Examination 0	Class:	Semester: I
S K Somaiya College		ne Department :
Name of the Cours Environmental stu	se: Business De	emography &
		arv
	S K Somaiya College Name of the Cour Environmental stu Maximum Marks	FYBBM S K Somaiya College Name of th

Question No.		Max. Marks
Q.1 (A)	Explain- Global warming. Give its causes and effects and remedies to control global warming.	15
	Or	
Q.1 (B)	Explain the difference between Dependent and Productive population. Explain the occupation composition of population in INDIA.	15
Q.2 (A)	Define- Demographics. Why do demographics matter? Give importance of demographics.	15
	Or	
Q.2 (B)	Explain the term- EIA. Name the projects covers in INDIA using EIA. Explain the process of EIA.	15
Q.3 (A)	Give a short note on following- a) Literacy rate b) Sex ratio in INDIA c) Age & sex pyramid	15
	Or	
Q.3 (B)	Read the given Case Study carefully and answer the following questions.	15
	NAVI MUMBAI INTERNATIONAL AIRPORT. (NMIA)	
	While the proposed Navi Mumbai international airport did get environmental clearance in November 2010, the Ministry of Environment and Forests (MoEF) has now asked two members of the Standing Committee of National Board for Wildlife (NBWL) to visit the area and prepare a site inspection report. Environmental Impact Assessment (EIA) report for the airport had erred in saving that the proposed airport was 12.5 from the proposed bird constructs.	
	saying that the proposed airport was 12.5 km away from Karnala bird sanctuary. The EIA report for the Navi Mumbai airport by the Indian Institute of Technology, Mumbai, stated that the location of the airport was 12.5 km away from the Karnala bird sanctuary. The report said, "The Karnala bird sanctuary is situated along the Mumbai-Goa-Konkan National Highway No.17 and is 12.5 km south of the proposed project site and falls outside of core area.	

The sanctuary is very rich in avifauna and harbors 147 species of resident and 37 species of migratory birds who visit the sanctuary during winter. Two rare birds i.e. Ashy Minivet and Spotted heart woodpeckers have been sighted here Located 40 km to the east of Mumbai on India's west coast in the Kovar-Panvel area in Navi Mumbai, the airport will displace some 3,500 families living in 10 villages. The affected people have long resisted land acquisition and demanded improved rehabilitation assistance. Beside dislocation of human habitations leading to loss of livelihoods, the site that encompasses 121 hectares of forest, 162 hector of mangroves and 404 Hector of mudflats will be concretized, destroying a unique wildlife habitat. Maharashtra's Forest department in 2017 identified 507 wetlands (369 in forest areas and 118 in non-forest areas) for taking up conservation and management in a holistic manner. Estimated to cost INR 30 billion (USD 413 million), the Navi Mumbai international airport received the government's approval in 2007, delayed as it was due to issues over acquiring land, and securing government approvals, including environmental clearances. **Questions:** O.1 Explain the environmental concerns associated with NMIA. 0.2 As an environmental protector, suggest measures to overcome the problems associated with NMIA. Q.3 Conduct SWOC on NMIA. 08 Choose the correct alternative out of following. 0.4 01 1. Demographics analysis used as _____ marketing tool. C) Digital D) Social A) Political B) Business 2. _____ of the following is not a quantitative data. 01 A) Sex ratio B) Literacy C) Age D) Politics Population refers to the population that can directly contribute to 01 the economy of the country. C) Working D) Juvenile B) Living A) Dead of the following is not Demographics. 01 A) Age B) Sex ratio C) Food D) Population 5) Vermicomposting is done by _ 01 A) Fungus B) Bacteria C) Worms D) Animals 6) The ecosystem is basic functional unit in as it indicates both living 01 organism and biotic environment. A) Economics B) Ecology C) Argo economics D) Ecotourism 7) The fall of moisture from atmosphere to earth's surface in any form is called A) Evaporation B) Assimilation C) Precipitation D) Filtration 8) The chief source of energy in the environment is 01 A) Fire B) Moon C) Sun D) Stars

Q.4 (B)	State whether the following statements are True or False.	OX
	1. Minerals are more evenly distributed resources on the earth.	OF
	2. Mortality is number of death rate per unit area per unit time.	01
	3. Extensive irrigation contribute to land degradation through salination,	01
	alkalization and water logging.	
	4. Organic resources such as forest, fish and animals are flow resources.	01
	5. Literacy is acquiring the skills of reading, writing with understanding.	01
	6. EIA is based on Principle of prevention and not on principle of curve.	01
	7. Poverty Alleviation five years plan in INDIA was started in 1951.	01
	From the state of	01





2022) 23 (UG Programmes)
Semester: I
of the Department : Business
ss Environment and
ecessary
ne

Question No.		Max.
Q.1	Explain what is Business? Also Explain what is business system process.	Marks
		15
Q.1	Explain the Economic systems and Business environment	
Q.2	Elaborate on Directing. OR	15
Q.2	Explain the two Modern theories of Management	
Q.3	Explain what is leadership and elaborate on the 5 styles of Leadership.	
	OR	15
Q.3	Case Study:	
	GSK pitched the Horlicks Foodles as a healthier option in instant noodles. Horlicks Foodles is GSK's attempt to get a share of the instand noodles segment. Not just Nestles' Maggi, it had to contend with HUL which had entered the instant noodles snacking segment for the second time with Knorr Soupy Noodles. (It had earlier tried its hand with a tie up with Indo-Nissin for its Smoodles in the 1990s. It had launched and later withdrawn a rice and vegetable based pudding with a chutney mix for evening snack called 4 O'Clock Tiffin). Private labels of large retailers like Future group (Tasty Treat) have gained some traction with their lower price tag. ITC, which has done well for itself in categories like flour, snacks, confectioneries and biscuits, has so far shield away from instant noodles; GSK has chose Horlicks Foodles for its entity into salty foods, a category that hinges on the very subjective criterion of taste. On its target is 6% of the market in a year or so.	
	Health is Wealth:	
	But GSK's Internal studies showed that instant noodles were not usually considered healthy. It found that mothers felt guilty serving instant noodles to children because maida is not as healthy as atta or wholegram wheat. As a result, mothers fortified the noodles with vegetables and eggs. This was a vital clue for GSK before it got started. "The fact that the category is so lopsided presents a bigger opportunity than usual to position oneself as differently and get heard. Even though instant noodles was pre dominantly taste based GSK felt that it could over the nutrition component since it has been long associated with	

1 /1	nutrition.	T
	GSK Struck a partnership with Nissin the maker of Top Ramen Smoodles, the original Maggi challenger. Nissin helped first in research and then production. The result was a maida product and another noodles made from four different grains as a healthier option. Both contain minerals in their tastemakers. It made a sense to retain Horlicks as the mother brand because of its strong brand equity in the health segment. The brand's India sale alone contributes 70-75% to its global turnover. It also reiterated the association with wellness. To drum in the fact that Foodles stands for nutrition, GSK is now working on a tactical insight from its test launch: It found the need to tag the packs with the respective flavors and the need to be sure that it gives out clues of the noodles being tasty and healthy on the pack itself.	
	A: SWOT and Competitor Analysis for Foodles.	
0.4		
Q.4 A.	Multiple Choice Questions:	15
71.	Which Political institution defines the boundaries of Business: a: Executive	
	b: Judiciary	
	c: Legislative	
	d: Prime Minister	
B.	is used to regulate the factors of production, including	
	capital, land, labour, and physical resources.	
	a: Technological System	
	b: Demographic system	
	c: Economic system	
C.	d: Social systems	
C.	Transformational leaders focus on:	
	a: Work the Employees do	
	b: Work they themselves do	
	c: Continuous Improvement	
D.	d: Fun element in the team In Laissez Faire Landaud:	
	In Laissez Faire Leadership, decision making is done by: a: Organizations	
	b: Leader	
	c: Subordinates	
	d: None of the above	
Ξ.	Being Efficient means:	
	a: Work the Employees do	
	b: Work they themselves do	
	c: Doing the task correctly	
	d: Fun element in the team	
	Leadership Grid is based on which the	
	Leadership Grid is based on which two dimensions: a: Concern for Profit and Concern of Fun	
	b: Concern for Productivity and Concern of Fun	
	b: Concern for Productivity and Concern for People c: Concern for Price and Concern for Product	
	oncern for Product	

G.	d: Concern for Place and Concern for People	
G.	Management by Objectives was given by	Sept Sept Sept Sept Sept Sept Sept Sept
	a: Henry Fayol	2 4
	b: Max Weber	1 32)
	c: Peter F. Drucker	
	d: F.W. Taylor	251 10 70 105 111
H.	is considered as the Pionagr of Ma	
	and Tayon	
	b: Max Weber	
	c: Peter F. Drucker	
	d: Robert Owen	
I.	SMART Goals stand for:	
	a: Small, Minimum, Actual, Rational, Time bound.	
	b: Specific, Measurable, Acceptable, Realistic, Time-bound.	
	c: Scientific, Maximum, Articulated, Rough, Tested.	
	d: None of the above	
J.	IRCTC is example of:	
	a: Perfect competition	
	b: Oligopoly competition	
	c: Monopolistic Competition	
	d: Monopoly	
K.	In Mixed Economic systems are also called as	
	a: Dual system	
	b: Market system	
	c: Command system	
	d: Individual system	
	During Desert	
	a: Increase in taxes will help increase demand.	
	b: Increase in revenues	
	c: Reduction in T	
	c: Reduction in Taxes	
1.	d: No changes in anything.	
	In 1991, LPG policy was enacted in India. Full form of LPG is:	
	- Edula I choleum Gas Policy	
	b: Liquidation, Prioritization, Governance Policy	
	c. Liberalization, Privatization, Globalization Policy	
	u. Literacy, Property Government Policy	
	Flaining is a	
	a: Past Action	
	b: Futuristic Action	
	c: Present Action	
4	d: Historic Action	
	Transactional leaders focus on:	
	a: Work the Employees do	
	b: Work they themselves do	
	c: Continuous Improvement	
	d: Fun element in the team	





Examination: End S	iester (August 2022 to I emester Examination J	December 2022	2)
Programme code: 06 Programme: Bachelors of Busin		Class: FYBBM	Semester: I
Name of the Constituent Colleg	e: S K Somaiya College		he Department : Business
Course Code: 131U06C101	Name of the Cour Management	se: Business E	nvironment and
Duration : 2 Hrs. Instructions: 1)Draw neat diagr	Maximum Marks	: 60	

Question No. Q.1		Max. Marks
Q.1	Explain what is Business? Elaborate on classification of Business types.	15
Q.1	Illustrate on What is Socio - Cultural Environment.	13
Q.2	Explain what is Management. Expand on the Contributions of F.W.Taylor.	15
Q.2	Compare the Various Leadership styles.	
Q.3	Perform SWOT analysis on Tata's EV segment.	
	OR	15
	Case Study:	
Q.3	Perfetti Van Melle has gone national with Chlormint brand of Chewing gum. Chlormint was first launched in 1997 in its green candy version; soon thereafter a gum variant was launched. But sales took off only in the East. Perfetti then brought in the ice candy version of the brand. So why the National roll out? According to Perfetti Managing Director of the brand Sammer Suneja "Gums are doing very well as a category and he is keen to tap this".	
	Per Capita consumption of gum in India is 8 Pieces per year, compared with 200 Pieces in the US and 100 Pieces in Russia. So there is an upside that confectioners like Perfetti can leverage. The company is pinning its hope on India's growing disposable income as well as changing lifestyles.	
	Besides Chlormint, Perfetti is present in three sub segments of the gum market: Center fresh and Centre Shock is chewing gum, Centre Fruit and Big Babool in bubble gum and Happydent in functional gum. Happydent is more cosmetic brand, Centre Fresh is fruity but Chlormint is a coated gum through which the market will target the young Male Adult. The positioning makes sense considering that half the country's population os below 30. Brand experts believe the product will be consumed be those who smoke and want fresh breath just like the hand boiled Chlormint Candy.	
	Perfetti has a share of 55% percent of the Rs. 800 Crore chewing gum market and the company hopes to increase this with Chlormint's National Launch. Nielsen pegs this as the fastest growing category in the confectionery segment.	

	Still, why was the brand restricted only to the East? The company never advertised. And now the company isn't leaving anything to the chance. New television campaigns will be followed by online as well as trade activation. Also brand Ambassador Salman Khan will be promoting the Variant.		
	Not surprisingly Khan was roped in around the same time as arch rival Wrigley, which has Boomer and Orbit in its portfolio, introduced Deepika Padukone as its brand ambassador. For its part, Wrigley proudly boasted endorsements from various dental associations worldwide - the World Dental Federation, American Dental Association and 17 others - to promote orbit.		
	Apart from rivals, there are other challenges. To begin with, his Re. 1 Chlormint chewing gum now competes with 25 paisa and 50 paisa confectioneries as impulse purchases. There is no strict brand loyalty. The brand has to contend with internal competition among his brands.	1	
	Questions: A: Carry out Porter's five force analysis for Chlormint.		
Q.4	Multiple Choice Questions:	15	4
A.	Business is any activity done to Earn:	15	+
	a: Revenues		
	b: Losses		
	c: Fame		
D	d: None of the above		
B.	Which Political institution defines the boundaries of Business:		-
	a: Executive		
	b: Judiciary		
	c: Legislative		
C.	d: Prime Minister		
0.	In Command Economic system, power lies in the hands of a: Public		
	b: Central Bank		
	c: Private Players		1
	d: Government		1
D.	D ' D .		
	During Recession, will help increase demand. a: Increase in taxes		
	b: Increase in revenues		
	c: Reduction in Taxes		
E.	d: No changes in anything. IRCTC is example of:		
	a: Perfect competition		7
	b: Oligopoly competition		
	c: Monopolistic Competition		
	d: Monopoly		
F.	In 1991, LPG policy was enacted in India. Full form of LPG is:		
	a: Liquid Petroleum Gas Policy		
	b: Liquidation, Prioritization, Governance Policy		
	c: Liberalization, Privatization, Globalization Policy		
	d: Literacy, Property Government Policy		
	January Government Folicy		

G.	is used to regulate the factors of production, including		
	rand, labour, and physical resources		
	a: Technological System		
	b: Demographic system		
	c: Economic system	•	
H.	d: Social systems		
11.	Being effective means:	-	
	a: Doing the task correctly, at least possible cost.		
	b: Doing the appropriate task.		
	c: Being multi-tasking		
I.	d: All of the above		
•	Neo classical theory pointed out the role of to understand	-	
	schaviour of individuals		
	a: Psychology and sociology	-	
	b: Mathematics		
	c: Employer Welfare		
J.	d: Statistics		
	Management by Objectives was given by	+	
	a: Henry Fayol		
	b: Max Weber		
	c: Peter F. Drucker		
K.	d: F.W. Taylor		
IX.	SMART Goals stand for:	+	
	a: Small, Minimum, Actual, Rational, Time bound.		
	b. Specific, Measurable, Acceptable Realistic Time 1		
	c. Scientific, Maximum, Articulated, Rough, Tested		
	d. None of the above		
٠.	Planning is a	+	
	a: Past Action		
	b: Futuristic Action		
	c: Present Action		
1.	d: Historic Action		
1.	Transformational leaders focus on:	+	
	a: Work the Employees do		
	b: Work they themselves do		
	c: Continuous Improvement		
	d: Fun element in the team		
	Leadership Grid is based on which two dimensions:	+	
	a: Concern for Profit and Concern of Fun		
	b: Concern for Productivity and Concern for People		
	c: Concern for Price and Concern for Product		
	d: Concern for Place and Concern for People		
	In Laissez Faire Leadership, decision making is done by:	+	
	a: Organizations		
	b: Leader		
	c: Subordinates		
	d: None of the above	1	

,





Examination: End S	ester (August 2022 to Demester Examination J	anuary 2023 (ÚG Programmes)
Programme code: 06 Programme: Bachelors of Busir		Class: FYBBM	Semester: I
Name of the Constituent Colleg	e: S K Somaiya College	Name of t	the Department : Business
	, a same	Studies	
Course Code: 131U06C101	Name of the Cours	Studies	nvironment and
	Name of the Cours	se: Business E	nvironment and

Question No.		Max.
Q.1	Explain what is Business? what are the Dynamics of modern Business	Marks 15
0.1	OR	13
Q.1	Illustrate on What is Socio - Cultural Environment.	
Q.2 ·	Outline on the Principles of Management by Henry Fayol. OR	15
Q.2	Compare the Various Leadership styles.	
Q.3	Elaborate on the following concepts: A: E-commerce B: Network Marketing	15
	OR	
Q.3	Case Study: Perfetti Van Melle has gone national with Chlormint brand of Chewing gum. Chlormint was first launched in 1997 in its green candy version; soon thereafter a gum variant was launched. But sales took off only in the East. Perfetti then brought in the ice candy version of the brand. So why the National roll out? According to Perfetti Managing Director of the brand Sammer Suneja "Gums are doing very well as a category and he is keen to tap this". Per Capita consumption of gum in India is 8 Pieces per year, compared with 200 Pieces in the US and 100 Pieces in Russia. So there is an upside that confectioners like Perfetti can leverage. The company is pinning its hope on India's growing disposable income as well as changing lifestyles. Besides Chlormint, Perfetti is present in three sub segments of the gum market: Center fresh and Centre Shock is chewing gum, Centre Fruit and Big Babool in bubble gum and Happydent in functional gum. Happydent is more cosmetic brand,	
	Centre Fresh is fruity but Chlormint is a coated gum through which the market will target the young Male Adult. The positioning makes sense considering that half the country's population os below 30. Brand experts believe the product will be consumed be those who smoke and want fresh breath - just like the hand boiled Chlormint Candy. Perfetti has a share of 55% percent of the Rs. 800 Crore chewing gum market and the company hopes to increase this with Chlormint's National Launch. Nielsen pegs this as the fastest growing category in the confectionery segment. Still, why was the brand restricted only to the East? The company never advertised. And	

	now the company isn't leaving anything to the chance. New television campaigns will be followed by online as well as trade activation. Also brand Ambassador Salman Khan will be promoting the Variant. Not surprisingly Khan was roped in around the same time as arch rival Wrigley, which has Boomer and Orbit in its portfolio, introduced Deepika Padukone as its brand ambassador. For its part, Wrigley proudly boasted endorsements from various dental associations worldwide - the World Dental Federation, American Dental Association and 17 others - to promote orbit. Apart from rivals, there are other challenges. To begin with, his Re. 1 Chlormint chewing gum now competes with 25 paisa and 50 paisa confectioneries as impulse purchases. There is no strict brand loyalty. The brand has to contend with internal competition among his brands. Questions:		
Q.4	A: Carry out Porter's five force analysis for Chlormint.	15	-
A.	Multiple Choice Questions: Business is any activity done to Earn:	15	-
71.	a: Revenues		
	b: Losses		
	c: Fame		
	d: None of the above		
В.	Transactional leaders focus on:		-
	a: Work the Employees do		
	b: Work they themselves do		
	c: Continuous Improvement		
	d: Fun element in the team		
C.	Management by Objectives was given by		1
	a: Henry Fayol		
	b: Max Weber		
	c: Peter F. Drucker		
	d: F.W. Taylor		
D.	During Recession, will help increase demand.		
	a: Increase in taxes		
	b: Increase in revenues		
	c: Reduction in Taxes		
	d: No changes in anything.		
E.	Which Political institution defines the boundaries of Business:		
	a: Executive		
	b: Judiciary		
	c: Legislative		
	d: Prime Minister		
F.	Business System Process in line are as follows:		
	a: Organizing, Production, Marketing		
	b: Production, Organizing, Marketing		
	c: Planning, Forecasting, Marketing		
	d: Marketing, Production, Organizing		
G.	is used to regulate the factors of production, including		
	capital, land, labour, and physical resources.		

	a: Technological System	C Specific San
	b: Demographic system	100
	c: Economic system	((()
	d: Social systems	The state of the s
H.	Being effective means:	with ordismos !
	a: Doing the task correctly, at least possible cost.	
	b: Doing the appropriate task.	
	c: Being multi-tasking	
	d: All of the above	
I.	Neo classical theory pointed out the role of to understand	
	behaviour of individuals	
	a: Psychology and sociology	
	b: Mathematics	
	c: Employer Welfare	
4-1-1	d: Statistics	
J.	IRCTC is example of:	
	a: Perfect competition	
	b: Oligopoly competition	
	c: Monopolistic Competition	
*	d: Monopoly	
K.	SMART Goals stand for:	
	a: Small, Minimum, Actual, Rational, Time bound.	
	b: Specific, Measurable, Acceptable, Realistic, Time-bound.	
	c: Scientific, Maximum, Articulated, Rough, Tested.	
	d: None of the above	
L.	Planning is a	
	a: Past Action	
	b: Futuristic Action	
	c: Present Action	
	d: Historic Action	
M.	Transformational leaders focus on:	
	a: Work the Employees do	
	b: Work they themselves do	
	c: Continuous Improvement	A-77
	d: Fun element in the team	
N.	Leadership Grid is based on which two dimensions:	
	a: Concern for Profit and Concern of Fun	
	b: Concern for Productivity and Concern for People	
	c: Concern for Price and Concern for Product	
	d: Concern for Place and Concern for People	
O.	In Laissez Faire Leadership, decision making is done by:	
	a: Organizations	
	b: Leader	
	c: Subordinates	
	d: None of the above	



Semester: January / 2023 Examination: ISE Examination

Programme code:

131U06K101

Programme:

BBM

Name of the Constituent College: S K Somaiya College

Name of the department: Business Studies

Class: FYBBM Semester: I

Library

Name of the Course: Business

Communication Skills

Instructions: 1) Figures to the right indicate maximum marks.

Section	Questions	Max.
Q1. A.	Prepare the minutes of a Meeting, presided by the Chairman of HKU Pvt LTD, an FMCG company. The main agenda of the meeting was introducing a new product, fixing a cost, discussing the sales, marketing, and advertising strategies.	Marks 15
	OR	
Q1. B.	You are Mr. Sunil Kaushik, the administrator of Gyan Jyoti Institute. Certain areas of your infrastructure need to reconstructed and revamped. You have been asked to prepare a report on the matter for the managing committee of the institute, stating the specific buildings that need facelift, and the areas that need attention. Use the formal report format and prepare a report in 250-300.	15
Q2. A.	Bring out the significance of using grapevine as a channel of communication in an organization using examples.	7
В.	Construct a complaint letter to ABC Enterprises Pvt Ltd about 10 electronic bulbs being defective out of 100 pieces delivered.	8
	OR	
Q2. C.	As the HR Manager of your organization, draft a memo for the sales employees, informing them about changes in their working hours.	7
D.	Dictaphone was the need of the day for some professionals before the introduction of smartphones. Illustrate the above sentence with reference to dictaphone with example of your choice.	8
Q3. A.	Discuss the set of personal etiquettes that needs to considered while being a part of the society?	7
В.	Create your resume in chronological order.	8

	OR		1
C.	Contrast the advantages and disadvantages of non-verbal communication using examples.	7	
D.	Distinguish between various types of communication using examples.	8	

Q 4	Mul	tiple Choice Questions	15
	i)	The group discussion assesses the candidate's ability to:	
	"		
		a) Control others	
		b) Confer with others on a specified subject	
		c) Argue with others	
		d) Lead others	
	ii)	Which is not compulsory to mentioned in a job description CV?	-
		a) Date	
		b) Name	
		c) Nationality	
		d) Education	
	-		
	iii)	Which of the following kinds of communication do students spend most time engaged in	
		Crigageu III	
		a) Listening	
		b) Speaking	
		c) Writing	
		d) Reading	
	iv)	Grapevine communication is associated with communication.	
		a) Formal	,
		b) Informal	
		c) Horizontal	
		d) Vertical	
`			
	v)	The rapid spread of a message about a new product of services is called	
		a) Viral marketing	
		b) Vertical market	
		c) Virtual organization	
		d) Viral sales	
	vi)	A memorandum is considered a brief form of written communication	
		a) Formal use	
		b) Internal use	
		c) Legal use	
		d) External use	
	vii)	Good business letters are characterized by the following personal quality of the	
	,	writer	
		a) Humor	
		b) Sincerity	
		c) Formality	

viii)	How we can address the recipient when we are writing an informal letter?	
Viii)	a) Dear Mr. b) Hello Sir/Madam c) Dear Sir/Madam d) My dear	Library
ix)	In the workplace, which of these actions is appropriate?	D JOBNA DIA CHICAGO
,	 a) Discuss politics b) Keep your work-related conversations vague c) Avoid chit-chat d) Change your mind often 	
x)	Sender needs a to send out a message.	
	a) Medium b) Feedback c) Vehicle d) Fee	
xi)	When a message is expressed using gestures or signs, it is	
	a) Oral b) Verbal c) Non-verbal d) Audio-visual	
xii)	The message that gets no response is not	
	a) Lost b) Symbolic c) Communicated d) Tolerated	
xiii) E	Employers appreciate workers who do which of the following:	
	 a) Ask for help when needed b) Always leave promptly when work hours are over c) Use speakerphone for all calls d) Generously decorate common office space 	
xiv) T	he key point of a formal letter is written in which part of a formal letter?	-
	a) Postscript b) Body c) Opening d) Closing	
xv) Th	he application letter is?	
	 a) A foreword b) A description of your main strengths and suitability for the job c) A summary of your qualifications and experiences d) A statement of your job objective 	



Semester: January / 2023 **Examination: ISE Examination**

Programme code:

131U06K101

Programme:

BBM

Name of the Constituent College: S K Somaiya College

Name of the department: Business

Semester: I

Studies

Class:

FYBBM

Name of the Course: Business

Communication Skills

Instructions: 1) Figures to the right indicate maximum marks.

	Questions	Max. Marks
Q1. A.	Prepare a report on a fire in slum cluster in Dharavi in 250 – 300 words which needs to be submitted to the Brihanmumbai Municipal Corporation. You are Amit/Amita Razdan, a reporter of the 'The Times of India.'	15
	OR	
Q1. B.	The Managing Committee of Bharat Shiksha Institute has decided to bring changes in the English and Accountancy syllabus for the first-year course. Mr. Kamal Kapoor, the academic Dean has been assigned the task of convening the meeting of all subject experts, lecturers, students and members from print and publishing department to deice the necessary alterations in the syllabus. As Kamal Kapoor -	15
	(a) Set an agenda for the meeting (b) Assign your secretary, Ms. Swati Singh to write the minutes of the meeting.	
Q2. A.	Outline the importance of group discussion and acknowledge based on types.	7
В.	You are Purchase Manager Vivek Shukla of an MNC. Draft a letter to place an order for 100 toys for an orphanage.	8
	OR	
Q2. C.	As the HR of HDEF Bank, draft a memo, to be distributed to front desk employees about certain changes in dress code.	7
D.	Identify the demerits of silence. Using examples, write a note on it.	8
Q3. A.	"Communication pervades the whole organization in the same way in which atmosphere prevails around us." Discuss.	7



B.	Comment	-
D.	Compare the advantages and disadvantages of teleconferencing.	8
	OR	
C. 1	Classify the set of etiquette that needs to follow during a meeting.	7
D.	Identify yourself as RJ Naved running a show called 'chit chat and chai.' List down the points to be kept in mind while conversing with your audiences.	8

Q4	Multiple Choice Questions	15
	Comments such as "yeah," "right," and "mm-hm" are examples of	
	i) Comments such as "yeah," "right," and "mm-hm" are examples of	
	a) Polite interrupting expressions	
	b) Active listening techniques	
	c) Irritating background noise	
	d) Ways of signing off	
	i) is a result of self- discipline, inner trust, and a decision to be	
	relentlessly in all solutions.	
	a) Exercise	
	b) Integrity	
	c) Work	
	d) Mind	
	ii) is a tool requiring skill usage.	
	a) Silence	
	b) Distractions	
	c) Attentiveness	
	d) Feedback	
i	The framing of a message for sending is known as	
	a) Decoding	
	b) Arranging	
	c) Encoding	
	d) Printing	
V	Effective speakers for a moment before an important point.	
	a) Pause	
	b) Smile	
	c) Frown	
	d) Scream	
v	The traditional resume is called the resume.	
	a) Chronological	
	b) Functional	
	c) Combined	
	d) CV	
1,,	Topics that will present at the next Board meeting is an example of an?	
vi		

	b) Agenda	
	c) Minutes	ing School of C
	d) Formal letter	1
vii	i)letter appreciates employee professionalism.	Library)
	a) Memorandum b) Testimonial	
	b) Testimonial	weath evision
	c) Appreciation	
	d) Discouragement	
	, and a second	
ix)	reveals the identity of the sender.	
	a) Salutation	
	b) Subject line	
	c) Head address	
	d) Body of the letter	
x)	A jargon is	
^/		
	a) A jar not in use	
	b) Gong of a bell	
	c) An inert gas	
	d) Technical word	
xi)	Communication is a	
	a) One-way process	
	b) Two-way process c) Three-way process	
	c) Three-way process d) Four-way process	
xii)	In a group discussion, one must communicate with	
^"'	must communicate with	
	a) Emotions	
	b) Long answers	
	c) Knowledge	
	d) Ignorance	
xiii)	Forms of communication in which words are used to convey message are	
	referred to as	
	a) Visual communication	
	b) Verbal communication	
	c) Non-verbal communication	
	d) Visual communication	
viv	Ego block is created due to	
xiv)		
	a) Language barriers	
	b) Physical barriers	
	c) Psychological barriers	
	d) Cross-cultural barriers	
xv)	When a message is expressed using gestures or signs, it is	
,,	communication.	
	a) Oral	
	b) Verbal	
	c) Non-verbal	
	d) Audio-visual	



Semester (August 2022 to December 2022)

Examination: End Semester Examination January 2023 (UG Programs)

Programme code:
Programme: BBA/BBM

Name of the Constituent College: S.K Somaiya College

Semester: I
FYBBM

Name of the Department: Business studies

Course Code:
131U07C102/131U06C103

Name of the Course: Micro Economics/Business Economics

Duration: 2 Hrs.

Maximum Marks: 60

Instructions: 1) Draw neat diagrams 2) Assume suitable data if necessary

Question No.		Max. Marks
Q.1(A)	Define Economics. Explain its scope and significance.	15
	OR	
Q.1(B)	Examine the Law of DMU. State its Importance and Limitations.	
Q.2(A)	Explain Elasticity of Demand. Explain the methods of measuring elasticity of demand.	15
	OR	
Q.2(B)	Explain Law of supply. Discuss the determinants of law of supply.	
Q.3 (A)	Examine the Law of returns to scale.	15
	OR	
Q.3 (B)	Explain Isoquants. Discuss the properties of isoquants.	
Q.4	Multiple Choice Questions (All questions carry 1 mark each)	15
1.	Macro Economics is also called as economics.	
	(a) Applied	
	(b) Aggregate	
	(c) Experimental	
	(d) None of the above	
2.	If regardless of changes in its price, the quantity demanded of a good remains unchanged, then the demand curve for the good will be:	
	(a) Horizontal	
	(b) Vertical	
	(c) Positively sloped	
	(d) Negatively sloped	

	A firm has a variable cost of Rs. 1000 at 5 units of output. If fixed costs are	
	Rs. 400, the average total cost at five units of output will be:	
	(a) Rs. 280	
	(a) Rs. 260 (b) Rs. 80	
	(c) Rs. 200	
	(d) Rs. 1400	
	(4) 115. 1100	
4.	In the short run, when the output of a firm increases, its average fixed cost:	
	(a) Increases	
	(b) Decreases	
	(c) Remains constant	
	(d) First declines & then rises	
5.	If price of computers increases by 10% and supply increases by 25%, the	
	elasticity of supply is:	
	(a) 2.5	
	(b) 0.4	
	(c) (-) 2.5	
	(d) (-) 0.4	
6.	The definition "Science which deals with wealth of notion?" was given by	
0.	The definition "Science which deals with wealth of nation" was given by:	
	(a) Alfred Marshall	
	(b) A C Pigou	
	(c) Adam Smith	
	(d) J B Say	
7.	All of the following are determinants of demand except:	
	(a) Tastes & preferences	
	(b) Quantity supplied	
	(c) Income of the consumer (d) Price of related goods	
	(d) File of felated goods	
8.	Mollie derives total utility of 10 utils after having 4 mangoes and total	
	utility on consuming 5 mangoes is 9, then her marginal utility for 5th mango	
	is:	
	(a) +1 util	
	(b) 0 util	
	(c) -1 util	
	(d) 9 utils	
9.	Marginal cost changes due to changes in	
	(a) Total cost	
	(b) Average cost	
	(c) Variable cost	
	(d) Quantity of output	

-			
7		Given the following four possibilities, results in an increase in	
		total consumer expenditure.	Sepond Commen
		(3)	
		(a) Demand is unitary elastic & price falls (b) Demand is elastic & price rises	Library
		(s) = 5-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	1
		(c) Demand is inelastic & price falls	U THIMENDY STIERS
		(d) Demand is inelastic & price rises	, inches
	11.	The cross elasticity between bread & DVDs is:	
		(a) Positive	
		(b) Negative	
		(c) Zero	
		(d) One	
	12.	The slope of indifference curve is equal to:	
		(a) One	
		(b) Marginal utility	
		(c) Marginal rate of substitution	
		(d) None of these	
	13.	Isoquant is always sloping.	
		(a) Upward	
0.		(b) Downward	
		(c) Concave	
		(d) Positive	
	14.	Expansion in demand leads to:	
		(a) Rightwards shift in demand curve	
		(b) Downward movement along the demand curve	
		(c) Upward movement along the demand curve	
		(d) Leftwards shift in demand curve	
	15.	When AP falls due to increase in quantity of variable input:	
		(a) MP < AP	
		(b) $MP = AP$	
		(c) $MP > AP$	
		(d) None of these	





Semester: January 2023 **Examination:** ESE Examination Semester: I Programme code: Class: FY Programme: Bachelor of Business Management (SVU 2022) Name of the Name of the Constituent College: department/Section/Center: S K Somaiya College Department of Business Studies Name of the Course: Business Statistics **Course Code:** 131U06C104 Instructions: 1. Assume suitable data, if necessary. 2. In Q.4(a) each question is of true/false type and carries 1 mark. 3. In Q.4(b) each question is fill in the blanks type and carries 1 mark.

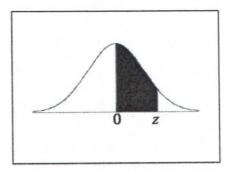
Questi on No.										Max. Marks
Q.1										marks
(a)	If the mode hence find th	of the following	llowing	distributi	on is Rs.3	40, find	the mis	sing frequ	uencies and	10
	Daily wages in Rs.	0-100	100- 200	200- 300	300- 400	400- 500	500- 600	600- 700	Total	
	No. of workers	4	16	60			6	4	230	
(b)	From the foll	owing da	ita, find t	the standa	ard deviati	on.				5
	Marks	0-5	5-10	10-15	15-20	20-25	25-30	30-35	35-40	
	No. of students	2	4	7	13	21	16	8	3	
					OR					
(c)	If the mean for the following data is Rs.560, find the missing frequency and hence find the mode of the data.									8
	Daily wages in Rs.	300-40	0 40	0-500	500-600	600-700		700-800	800-900	
	No. of persons	10		20	40			8	6	
(d)	Calculate qu	artile dev	viation a	nd its rela	ative meas	ure for th	he follow	ving:		7
` '	Values	2	0-29	30-39	40-49	50	-59	60-69	70-79	
	Values				1	30				1

Q.2												m	
(a)	Using least set the production	squares on for th	metho ne year	d, find t s 2007 a	he best and 2009	fit lines	ar trend	l line fo	or the da	ata and e	estimate		
	Year	19	99	2000	2001	20	02	2003	2004	200	5		
	Production (in thousands	1	4	15	17	10	6	17	20	23			
(b)	Find the Kar	l Pearso	on's co	orrelation	n coeffic	cient for	the da	ıta.					
	X	4		7		8	9	9	10		13		
	Y	5		6		9	1	.0	12		15		
						OR							
(c)	Find the Spe	earman'	's rank	correlat	ion coef	fficient	for the	data.					
	X	25	43	25	40	16	25	43	50	60			
	Y	30	40	30	40	20	32	40	32	30			
(d)	Construct L	aspeyre	's , Pa	asche's	and Fish	ner's in	dex nui	mber fro	om the f	following	g data.		
				Base year = 1990 Current year = 2000									
	Comm	odities	5	Prices		Quantit	ies	Pric	es	Quanti	ties		
	Rie	ce		20		8		25		5			
	Wh	eat		25		7		38		6			
	Pul	ses		22		10		35		4			
	Ma	ize		20		5		30	30 5	5			
	Oth	iers		15		7		25		7			
Q.3													
(a)	, ,	obabilit exactly	y that 3 red	balls are	selecte	d	ls are s	elected	at rand	om from	the box.		
	(iii) (iv)	at most	4 blue two ba	red balls balls ar alls of ea	e select ach colo	ed or are se			es Test	the clair	n that the		
(b)	A certain coin showed up heads on 270 occasions in 500 tosses. Test the claim that the coin is unbiased for $\alpha = 5\%$.												

(c)	Two samples of 150 and 200 balls drawn from two different lots gave 5% and 7% defective balls respectively. Test whether both the lots come from the balls manufactured by the same process. Take level of significance = 5%, 1%. Which test should be used to test the claim?	10
(d)	Find the probability of 1. throwing at most two sixes in six throws of a single die. 2. getting 5 exactly twice in 7 throws of a single die.	5
Q.4	Objective Type Questions	15 marks
Q.4 (a)	 An event is a subset of the sample space. (True/False) A bernoulli trial has only two type of outcomes. (True/False) The probability of an event cannot be 1.001. (True/False) 	8 marks
	 4) In normal distribution of a random variable, the probability represents the area under the probability curve. (True/False) 5) Bias = Expected Value - Actual Value. (True/False) 6) P(Z<1.58) = 0.4429. (True/False) 7) Error involved in rejecting H₀ when H₀ was actually true is called Type I error. (True/False) 8) Sample proportion is a parameter. (True/False) 	
Q.4 (b)	 If events A and B are complementary events, then P(A ∩ B) =	7 marks
	7. The region where H ₀ is rejected is called	

	Rejection Criteria for						
Level of Significance	Two tailed test	Left tailed test ルくれ。	Right tailed test ルフル。				
10%	Z >1.64	Z < -1.28	Z > 1.28				
5%	Z >1.96	Z<-1.64	Z > 1.64				
2%	Z >2.33	Z < -2.05	Z > 2.05				
1%	Z >2.58	Z<-2.33	Z > 2.33				
Almost nil	Z >3	Z<-3	Z>3				

Standard Normal Distribution Table



Z	.00	.01	.02	.03	.04	.05	.06	.07	.08	.09
0.0	.0000	.0040	.0080	.0120	.0160	.0199	.0239	.0279	.0319	.0359
0.1	.0398	.0438	.0478	.0517	.0557	.0596	.0636	.0675	.0714	.0753
0.2	.0793	.0832	.0871	.0910	.0948	.0987	.1026	.1064	.1103	.1141
0.3	.1179	.1217	.1255	.1293	.1331	.1368	.1406	.1443	.1480	.1517
0.4	.1554	.1591	.1628	.1664	.1700	.1736	.1772	.1808	.1844	.1879
0.5	.1915	.1950	.1985	.2019	.2054	.2088	.2123	.2157	.2190	.2224
0.6	.2257	.2291	.2324	.2357	.2389	.2422	.2454	.2486	.2517	.2549
0.7	.2580	.2611	.2642	.2673	.2704	.2734	.2764	.2794	.2823	.2852
0.8	.2881	.2910	.2939	.2967	.2995	.3023	.3051	.3078	.3106	.3133
0.9	.3159	.3186	.3212	.3238	.3264	.3289	.3315	.3340	.3365	.3389
1.0	.3413	.3438	.3461	.3485	.3508	.3531	.3554	.3577	.3599	.3621
1.1	.3643	.3665	.3686	.3708	.3729	.3749	.3770	.3790	.3810	.3830
1.2	.3849	.3869	.3888	.3907	.3925	.3944	.3962	.3980	.3997	.4015
1.3	.4032	.4049	.4066	.4082	.4099	.4115	.4131	.4147	.4162	.4177
1.4	.4192	.4207	.4222	.4236	.4251	.4265	.4279	.4292	.4306	.4319
1.5	.4332	.4345	.4357	.4370	.4382	.4394	.4406	.4418	.4429	.4441
1.6	.4452	.4463	.4474	.4484	.4495	.4505	.4515	.4525	.4535	.4545
1.7	.4554	.4564	.4573	.4582	.4591	.4599	.4608	.4616	.4625	.4633
1.8	.4641	.4649	.4656	.4664	.4671	.4678	.4686	.4693	.4699	.4706
1.9	.4713	.4719	.4726	.4732	.4738	.4744	.4750	.4756	.4761	.4767
2.0	.4772	.4778	.4783	.4788	.4793	.4798	.4803	.4808	.4812	.4817
2.1	.4821	.4826	.4830	.4834	.4838	.4842	.4846	.4850	.4854	.4857
2.2	.4861	.4864	.4868	.4871	.4875	.4878	.4881	.4884	.4887	.4890
2.3	.4893	.4896	.4898	.4901	.4904	.4906	.4909	.4911	.4913	.4916
2.4	.4918	.4920	.4922	.4925	.4927	.4929	.4931	.4932	.4934	.4936
2.5	.4938	.4940	.4941	.4943	.4945	.4946	.4948	.4949	.4951	.4952
2.6	.4953	.4955	.4956	.4957	.4959	.4960	.4961	.4962	.4963	.4964
2.7	.4965	.4966	.4967	.4968	.4969	.4970	.4971	.4972	.4973	.4974
2.8	.4974	.4975	.4976	.4977	.4977	.4978	.4979	.4979	.4980	.4981
2.9	.4981	.4982	.4982	.4983	.4984	.4984	.4985	.4985	.4986	.4986
3.0	.4987	.4987	.4987	.4988	.4988	.4989	.4989	.4989	.4990	.4990
3.1	.4990	.4991	.4991	.4991	.4992	.4992	.4992	.4992	.4993	.4993
3.2	.4993	.4993	.4994	.4994	.4994	.4994	.4994	.4995	.4995	.4995
3.3	.4995	.4995	.4995	.4996	.4996	.4996	.4996	.4996	.4996	.4997
3.4	.4997	.4997	.4997	.4997	.4997	.4997	.4997	.4997	.4997	.4998
3.5	.4998	.4998	.4998	.4998	.4998	.4998	.4998	.4998	.4998	.4998



Semester: January 2023 **Examination: ESE Examination** Semester: I Programme code: Class: FY Programme: Bachelor of Business Management (SVU 2022) Name of the Name of the Constituent College: department/Section/Center: S K Somaiya College Department of Business Studies Name of the Course: Business Statistics 131U06C104 **Course Code:** Instructions: 1. Assume suitable data, if necessary. 2. In Q.4(a) each question is of true/false type and carries 1 mark. 3. In Q.4(b) each question is of fill in the blanks type and carries 1 mark.

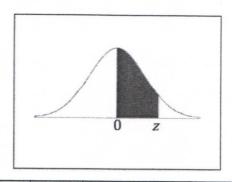
Questi No.										Max. Marks 15 marks			
(a)	If the Mean for the following data is Rs.562, find the missing frequency and hence find the Median for the data.												
	Daily wages in Rs.	300-400	400	-500	500-600	600-70	00 70	00-800	800-900				
	No. of persons	10	2	20	40	-		8	7				
(b)	The average monthly sales, for the first few months, for a salesman was Rs. 5000. For the remaining months of the year his performance was improved with average sales of Rs. 7000 per month. This resulted in his average sales per month for the entire year being Rs. 6500. Find the number of months for which his average monthly sales was Rs. 5000.												
(c)	OR From the following data, find the standard deviation and its relative measure.												
	Marks	Marks 5-10 10-		15-20	20-25	25-30	30-35	35-40					
	No. of students	7	9	10	12	7	9	12	15				
(d)	Calculate quartile deviation for the following data.												
	Values	20-	30	30-40	40-50	50-	-60	60-70	70-80				
	Cumulative frequency (les than type)	s 4	5	75	140	18	37	231	250				
						.∮							

Q.2	77											15 marks		
(a)	Using least squares method, find the best fit linear trend line for the data and estimate the production for the years 2007 and 2009.													
	Year 1999		9 2	2000 2001 200			2 2003 2004			200	5			
	Production (in thousands)	14		15	17	16		17	20	23				
(b)	Find the Karl Pearson's correlation coefficient for the data.													
	X 145			140		142		3	137		144			
	Y	90		95		89	92		94		87			
					C	R								
(c)	Draw the time series graph and determine secular or simple trend line by method of four yearly moving averages for the below given data.													
	Year(X)	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021			
	No. of people losing jobs(Y)	300	400	150	170	175	180	190	220	540	350			
(d)	Construct Laspeyre's, Paasche's and Kelly's index number from the following data. Base year = 1990 Current year = 2000													
	Commo					uantities Pric			Quantit					
	Rice		24			9		45		8				
	Whea	it	42	15		7		28		10				
	Pulse			24		12		35	2 1 2 1 1 2 1 1 2 1 1 2 1 1 1 1 1 1 1 1	6	2.			
	Maiz			25 10		7		25		9				
2.0	Other											15		
Q.3												mark		
(a)	and standard (i) le (ii) be (iii) m (iv) be	deviations than etween that etween etween	on 3.5 incl 62 incl 60 and n 66 incl 64 incl	inches. hes 65 inches ches nes and	How mu	ach pero	cent of	patients	have h	eight		10		
(b)		ssed 90 nat the c	0 time	s and l unbiase	heads ap ed? Use a	pear 47 a 1% le	0 time vel of s	s. Does significa	this re ince.	sult sup	oport the	5		
					(OR								

(c)	standard deviation of 100 units. By a new technique in the manufacturing process, it is claimed that the breaking strength of the tables have increased. To test this claim, a sample of 50 tables is tested. It is found that the mean breaking strength is 1850. Can we support the claim at 0.05, 0.02 level of significance? Which test should be used to test the claim?										
(d)	Following is the probability distribution of number of smart phones sold in a shop per day. Find the value of k and $E(X)$.										
	X=x 0 1 2 3	4	5								
	P(X=x) k 0.3 0.15 0.15	5 0.1	2 <i>k</i>								
Q.4	Objective Type Quest			15 marks							
Q.4 (a)	 If P(A) = 1, then A is an impossible event. (True/False) In normal distribution of a random variable, the probability curve is symmetric about the mean. (True/False) P(Z<1.1) = 0.8643. (True/False) If A and B are two mutually exclusive events, then P(A ∩ B) = 1. (True/False) Sample standard deviation is a statistic. (True/False) In a two tailed test, the rejection region lies on both sides of the normal curve. (True/False) Error involved in accepting H₀ when H₀ was actually false is called Type I error. (True/False) Population proportion is a parameter. (True/False) 										
Q.4 (b)	 P(Z>2.1) =										

	Rejection Criteria for						
Level of Significance	Two tailed test	Left tailed test ルくれ。	Right tailed test ルフル。				
10%	Z >1.64	Z < -1.28	Z > 1.28				
5%	Z >1.96	Z < -1.64	Z>1.64				
2%	Z >2.33	Z < -2.05	Z > 2.05				
1%	Z >2.58	Z < -2.33	Z > 2.33				
Almost nil	Z >3	Z<-3	Z>3				

Standard Normal Distribution Table



Z	.00	.01	.02	.03	.04	.05	.06	.07	.08	.09
0.0	.0000	.0040	.0080	.0120	.0160	.0199	.0239	.0279	.0319	.0359
0.1	.0398	.0438	.0478	.0517	.0557	.0596	.0636	.0675	.0714	.0753
0.2	.0793	.0832	.0871	.0910	.0948	.0987	.1026	.1064	.1103	.1141
0.3	.1179	.1217	.1255	.1293	.1331	.1368	.1406	.1443	.1480	.1517
0.4	.1554	.1591	.1628	.1664	.1700	.1736	.1772	.1808	.1844	.1879
0.5	.1915	.1950	.1985	.2019	.2054	.2088	.2123	.2157	.2190	.2224
0.6	.2257	.2291	.2324	.2357	.2389	.2422	.2454	.2486	.2517	.2549
0.7	.2580	.2611	.2642	.2673	.2704	.2734	.2764	.2794	.2823	.2852
0.8	.2881	.2910	.2939	.2967	.2995	.3023	.3051	.3078	.3106	.3133
0.9	.3159	.3186	.3212	.3238	.3264	.3289	.3315	.3340	.3365	.3389
1.0	.3413	.3438	.3461	.3485	.3508	.3531	.3554	.3577	.3599	.3621
1.1	.3643	.3665	.3686	.3708	.3729	.3749	.3770	.3790	.3810	.3830
1.2	.3849	.3869	.3888	.3907	.3925	.3944	.3962	.3980	.3997	.4015
1.3	.4032	.4049	.4066	.4082	.4099	.4115	.4131	.4147	.4162	.4177
1.4	.4192	.4207	.4222	.4236	.4251	.4265	.4279	.4292	.4306	.4319
1.5	.4332	.4345	.4357	.4370	.4382	.4394	.4406	.4418	.4429	.4441
1.6	.4452	.4463	.4474	.4484	.4495	.4505	.4515	.4525	.4535	.4545
1.7	.4554	.4564	.4573	.4582	.4591	.4599	.4608	.4616	.4625	.4633
1.8	.4641	.4649	.4656	.4664	.4671	.4678	.4686	.4693	.4699	.4706
1.9	.4713	.4719	.4726	.4732	.4738	.4744	.4750	.4756	.4761	.4767
2.0	.4772	.4778	.4783	.4788	.4793	.4798	.4803	.4808	.4812	.4817
2.1	.4821	.4826	.4830	.4834	.4838	.4842	.4846	.4850	.4854	.4857
2.2	.4861	.4864	.4868	.4871	.4875	.4878	.4881	.4884	.4887	.4890
2.3	.4893	.4896	.4898	.4901	.4904	.4906	.4909	.4911	.4913	.4916
2.4	.4918	.4920	.4922	.4925	.4927	.4929	.4931	.4932	.4934	.4936
2.5	.4938	.4940	.4941	.4943	.4945	.4946	.4948	.4949	.4951	.4952
2.6	.4953	.4955	.4956	.4957	.4959	.4960	.4961	.4962	.4963	.4964
2.7	.4965	.4966	.4967	.4968	.4969	.4970	.4971	.4972	.4973	.4974
2.8	.4974	.4975	.4976	.4977	.4977	.4978	.4979	.4979	.4980	.4981
2.9	.4981	.4982	.4982	.4983	.4984	.4984	.4985	.4985	.4986	.4986
3.0	.4987	.4987	.4987	.4988	.4988	.4989	.4989	.4989	.4990	.4990
3.1	.4990	.4991	.4991	.4991	.4992	.4992	.4992	.4992	.4993	.4993
3.2	.4993	.4993	.4994	.4994	.4994	.4994	.4994	.4995	.4995	.4995
3.3	.4995	.4995	.4995	.4996	.4996	.4996	.4996	.4996	.4996	.4997
3.4	.4997	.4997	.4997	.4997	.4997	.4997	.4997	.4997	.4997	.4998
3.5	.4998	.4998	.4998	.4998	.4998	.4998	.4998	.4998	.4998	.4998