SOMAIYA

VIDYAVIHAR UNIVERSITY

Somaiya School of Humanities and Social Science

QUESTION PAPERS

BRANCH: Bachelor of Science (Economics)	SEM: III
	OCT-2023

Sr. No.	Subject	Available
1.	Wealth Management	
2.	131U01G101 – Economics of Demography	
3.	231U31I104 – Statistical Methods	
4.	131U01K301 – Basics of Capital Market	
5.	131U01C301 – Development of Economics	
6.	131U01C305 – Money & Banking (A)	
7.	131U01C305 – Money & Banking (B)	
8.		
9.		
10.		

LIBRARY

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VIDYAVIHAR UNIVERSITY

Semester (July 2023 to October 2023)			
Examination: End Semester Examination October/November 2023 (UG Programmes)			
Programme code: Programme: BSC Economics		Class: SY	Semester: III
Name of the Constituent College: S. K. Somaiya college.		Name of the Department Economics	
Course Code:	Name of the Course: Wealth Management		
Duration : 2 Hrs.	Maximum Marks : 60		
Instructions: 1)Draw neat diagrams 2)Assume suitable data if necessary 3) Use of Calculator is allowed.			

Question No.		Max. Marks	Co Attainment
Q.1 A	Attempt any one set of the following questions (A, B OR C, D) What is the potential growth of the wealth management industry?	8	1
B	What are the various methods that we use to measure the risk?	7	2
	OR		
C	Write a short note on the Wealth management in India.	8	1
D	Define the criteria for evaluating different investment alternatives.	7	2
Q.2 A	Attempt any one set of the following questions (A, B OR C, D) Find out the standard deviation from the following table:	8	2

Possible Outcome	Rate of interest	Expected returns	Probability
20	5	7.25	0.25
30	7	7.25	0.25
40	10	7.25	0.50

B	Explain the fundamental difference between future and option contract with their key characteristics.	7	3
	OR		
C	What do you understand by the Equity market and what are the key advantages of investing in equities as compared to other asset classes?	8	3
D	Calculate 3 year moving average and also draw the trend line.	7	2

Year	Exports (in million)
2000	54

Year	Value			
2001	56			
2002	58			
2003	50			
2004	52			
2005	48			
2006	49			
2007	44			
2008	51			
2009	55			

Q.3	Attempt any one set of the following questions (A, B OR C, D)		
A	Define commodities and explain the key characteristics of commodities as an asset class.	8	3
B	Explain the different types of mutual fund and what are the key characteristics of it?	7	4
	OR		
C	What is covariance between the returns on stock A and B:	8	4

State of nature	Probability	Returns on stock A in%	Returns on stock B in%
1	0.10	5	0
2	0.30	10	8
3	0.50	15	18
4	0.10	20	26

D	The returns of ABC Ltd. And market returns are given as follows:	7	4

Year	Returns on ABC Ltd. %	Returns on market portfolio %
1	15	12
2	-6	1
3	18	14
4	30	24
5	12	16

6	25	30
7	2	-3
8	20	24
9	18	15
10	24	22
11	8	12

Calculate Beta for the stock ABC Ltd.

Q.4 A	Answer in detail. (Any 3) Calculate the Price weighted index, Equal weighted index and value weighted index from the given information:	5	2

Shares	Price in base year	Price in year t	Number of outstanding shares
A	120	160	10
B	180	150	5
C	350	600	6
D	200	300	40
E	150	100	30

B

Suppose we have 2 investments in our portfolio:

Investment A: 1,50,000 with 5% expected returns

Investment B: 4,00,00 with 10% expected returns

What is the expected return of portfolio:

	5	4

C Calculate 4 year moving average and plot a trend line:

	5	2

Year	Exports (in million)
2008	115
2009	150
2010	145
2011	195
2012	290
2013	380

	2014 330 2015 400		
D	Explain life cycle of an individual.	5	2
E	Elaborate on Harry Markowitz portfolio theory.	5	2

Semester (July 2023 to October 2023)
Examination: End Semester Examination October/November 2023 (UG Programmes)

Programme code: 30	
Programme: BSc in Economics	Class: SYBSC Semester: III
Name of the Constituent College: S K Somaiya College	
	Name of the Department: Economics.
Course Code: 131U01G101	Name of the Course: Economics of Demography
Duration: 2 Hrs.	Maximum Marks: 60

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

Question	Attempt the following questions	Max. Marks	Co Attainment
Q.1	A) Discuss the importance of Demography studies. B) Explain difficulties in sample registration system. **OR** C) Discuss size and population growth of India. D) Explain various reasons for high birth rate	8 7 8 7	CO 1
Q.2	A) Discuss the concept of Age and Sex structure in India. B) Explain various causes of urbanization growth in India. **OR** C) Explain dynamics of population change. D) Explain Arthur Lewis theory of economic developments.	8 7 8 7	CO 2
Q.3	A) Explain the importance of population projections. B) Discuss population policy 2000. **OR** C) What were the trends of population growth of India from 1971 to 2011. D) Discuss slowdown in population growth and positive effects on the economy.	8 7 8 7	*CO 3*
Q.4 A B C D E	**Explain following concepts (Any 3)** Importance of Census. Demographic year books. Literacy rate in India. Work force in India. Causes of migration.	15	CO 4

Semester (July 2023 to October 2023)
Examination: End Semester Examination October/November 2023 (UG Programmes)

Programme code: Programme: FY B.SC (ECONOMICS)	Class: FY	Semester: III
Name of the Constituent College: S.K Somaiya College	Name of the Department : Economics	
Course Code:231U31I104	Name of the Course: Statistical Methods	
Duration : 2 Hrs.	Maximum Marks : 60	

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

Question No.	Answer the following	Max. Marks	Co Attainment
Q. 1	[A] Find Standard deviation	(7)	Co 1
	<table><tr><td>Age in Years</td><td>No. of Persons</td></tr><tr><td>0-10</td><td>3</td></tr><tr><td>10-20</td><td>7</td></tr><tr><td>20-30</td><td>12</td></tr><tr><td>30-40</td><td>10</td></tr><tr><td>40-50</td><td>4</td></tr><tr><td>50-60</td><td>2</td></tr></table>		
	[B] If X is a random variable with probability mass function $P(X=x)= kx$;x=0,1,2,3,4 Find the value of k, mean ,variance	(8)	Co 1
	OR		
	[C] Derive the Relationship between raw and central moment	(7)	Co 2
	[D] If bivariate probability mass function is given by $P_{XY}(X,Y)=K(2X+Y)$:X,Y=2,3,4 Obtain value of k. Also obtain marginal p.m.f of x and y and conditional p.m.f of x given y=2	(8)	Co 2
Q.2	[A] Compute Karl-Pearsons coefficient od skewness for the following data 43,48,38,46,50,48,47,48,62,48	(7)	Co 3
	[B] Calculate Four Central Moments		Co 3
	<table><tr><td>X-values</td><td>Frequency</td></tr><tr><td>11</td><td>2</td></tr><tr><td>12</td><td>9</td></tr><tr><td>13</td><td>25</td></tr><tr><td>14</td><td>35</td></tr><tr><td>15</td><td>20</td></tr><tr><td>16</td><td>8</td></tr><tr><td>17</td><td>1</td></tr></table>	(8)	
	OR		
	[C] Calculate Bowleys coefficient of Skewness for following data	(7)	Co 3
	<table><tr><td>Age (years)</td><td>Frequency</td></tr><tr><td>10-20</td><td>1</td></tr><tr><td>20-30</td><td>20</td></tr></table>		

30-40	69
40-50	108
50-60	78
60-70	22
70-80	2

[D]The Probability mass function of random variable x given by (8) Co 3

X	P(x)
-2	0.1
-1	K
0	0.2
1	2k
2	0.3
3	K

Q.3

[A] Calculate Karl-persons Coefficient of Correlation (7) Co 4

X	Y
-3	-7
1	2
2	1
7	5
-1	-3
4	5

[B] Calculate Rank Correlation Coefficient (8) Co 4

X	y
67	78
42	80
53	78
67	73
62	75
60	68
54	63
67	75

OR

[C] Given the two regression equation as 4x-y-23=0 and 3x-2y+4=0 (7) Co 4
Find i) the coefficient of correlation ii) the mean values of x and y

[D] From the following data. Find the regression equation and further (8)
estimate y when x=16 and x when y=18   Co 4

Q.4) Solve any 3 following (15)

[A] the Probability of wining, Neil plays 5 games . find probability that   Co 1
he wins i) at least 3 games ii) 2 games

[B] A firm has 300 accounts which are normally distributed with mean   Co 2
10000 and standard deviation 1000
i) the number of accounts with amount lying between 8000 and
11000
ii) the number of accounts with 7500 or less

[C] P(AUB)=5/6   P(A')=1/3 P(B)=1/2 Find P (B'), P(A∩B)   Co 3

[D]) If $r_{12}=0.86$ $r_{13}=0.65$ $r_{23}=0.72$ Find the Partial Correlation Coefficient $r_{12.3}$ and Multiple Correlation $R_{1.23}$		Co 4
[E] Given regression equations $3x-y-25=0$ and $2x-3y+30=0$. Find i) mean value of x and y ii) coefficient of correlation		Co 4

Table 1: Area Under Normal Curve

An entry in the table is the proportion under the entire curve which is between z = 0 and a positive value of z. Areas for negative values for z are obtained by symmetry.
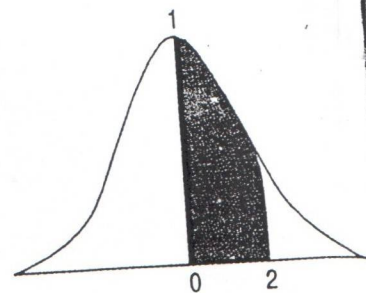
Areas of a standard normal distribution

z	.0	.01	.02	.03	.04	.05	.06	.07	.08	.09
.0	.0000	.0040	.0080	.0120	.0160	.0199	.0239	.0279	.0319	.0359
.1	.0398	.0438	.0478	.0517	.0557	.0596	.0636	.0675	.0714	.0753
.2	.0793	.0832	.0871	.0910	.0948	.0987	.1026	.1064	.1103	.1141
.3	.1179	.1217	.1255	.1293	.1331	.1368	.1406	.1443	.1480	.1517
.4	.1554	.1591	.1628	.1664	.1700	.1736	.1772	.1808	.1844	.1879
.5	.1915	.1950	.1985	.2019	.2054	.2088	.2123	.2157	.2190	.2224
.6	.2257	.2291	.2324	.2357	.2389	.2422	.2454	.2486	.2517	.2549
.7	.2580	.2611	.2642	.2673	.2704	.2734	.2764	.2794	.2823	.2852
.8	.2881	.2910	.2939	.2967	.2995	.3023	.3051	.3078	.3106	.3133
.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

Semester (July 2023 to October 2023)
Examination: End Semester Examination October/November 2023 (UG/PG Programmes)

Programme code: 30 **Programme: SYBSc (Economics)**	**Class:** SY	**Semester: III**
Name of the Constituent College: S.K. Somaiya		**Name of the Department: Department of Economics**
Course Code: 131U01K301		**Name of the Course: Basics of capital Market**
Duration : 2 Hrs.		**Maximum Marks : 60**
Instructions: 1)Draw neat diagrams 2)Assume suitable data if necessary 3)		

Question No.		Max. Marks	Co Attainment
Q.1	a) What are the advantages and disadvantages of preference Shares?	8	CO1
	b) How is saving different from Investment? Distinguish.	7	
	Or		
	c) What are the various types of equity shares?	8	
	d) Classify the Financial Markets based on primary & secondary market.	7	
Q.2	a) Give a step by step guide to Clearing & Settlement Process in Indian stock market.	8	CO2
	b) What are the differences between BSE and NSE?	7	
	Or		
	c) What is IPO? What are the steps of listing a stock on an exchange?	8	
	d) Write about India's two Benchmark indices BSE Sensex and NSE Nifty	7	
Q.3	a) What are the various instruments under fixed income securities?	8	CO3
	b) What are the benefits of an efficient Debt Market to the financial system and the economy?	7	
	Or		
	c) Distinguish between bond & bond funds.	8	
	d) What are the various types of debt yield?	7	
Q.4	Write short notes on (Any 3) a. Clearing & settlement in commodity market b. Spot vs futures c. Mutual funds d. RBI e. Different types of Margins	15	CO4

Semester (July 2023 to October 2023)			
Examination: End Semester Examination October/November 2023 (UG/PG Programmes)			
Programme Code: Programme: BSC Economics		Class: SY	Semester: III
Name of the Constituent College: SKSC		Name of the Department: Economics	
Course Code: 131U01C301	Name of the Course: Development economics		
Duration: 2 Hrs.	Maximum Marks:60		
Instructions: 1) Draw neat diagrams 2) Assume suitable data if necessary			

Question No.		Max. Marks	Co Attainment
Q.1	A) Give the graphical representation of Amartya Sen's Capability Approach.	(7M)	CO1
	B) Give the HDI of India if, Life expectancy at Birth is 67.2 years, expected year of schooling is 11.9 years, Mean year of schooling is 6.7 years, and GNI Per capita= $6590 (ppp) [log 100 = 2; log 75000= 4.88; log 6590=3.81]	(8M)	
	OR		
	C) Elaborate on features of underdeveloped nations.	(7M)	
	D) Explain PQLI as alternative measure of development.	(8M)	
Q.2	A)Explain Kuznet curve with the necessary graph.	(7M)	CO2
	B)Elaborate on Harris Todaro model with the graphical representation.	(8M)	
	OR		
	C) Distinguish between balanced and unbalanced theories of growth.	(7M)	
	D) What is multi-dimensional poverty index? Explain in detail.	(8M)	
Q.3	A) Elaborate on Harrod model with emphasis on knife edge equilibrium.	(7M)	CO3
	B) Explain Domer model in detail.	(8M)	
	OR		
	C) What is O ring theory? Elucidate in detail.	(7M)	
	D) Critically examine the impact of investment-oriented models on development globally.	(8M)	
Q.4	**Answer any 3 from the following.**	(15M)	CO4
	A) Sustainable development goals B) Robinhood index C) China's developmental path D) Gini index E) India's developmental path		

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Semester (July 2023 to October 2023)		
Examination: End Semester Examination October/November 2023 (UG Programmes)		
Programme code:30 Programme: BSC Economics	Class: SY	Semester: III
Name of the Constituent College: S K Somaiya College	Name of the Department: Economics	
Course Code: 131U01C305	Name of the Course: Money and Banking	
Duration : 2 Hrs.	Maximum Marks : 60	
Instructions: 1)Draw neat diagrams 2)Assume suitable data if necessary		

Question No.		Max. Marks	Co Attainment
Q.1	Explain the Following		
A	Explain Barter system and its disadvantages.	08	01
B	Describe concept of near money.	07	01
	OR		
C	Analyze Gurley and Shaw and Central banking approach of concept of money.	08	01
D	Elaborate structure of commercial banking in India.	07	02
Q.2	Explain the Following		
A	Classify Banks on the basis of ownership and function	08	02
B	Explain group banking and mention its advantages.	07	02
	OR		
C	Illustrate credit control and other important functions of Central Bank.	07	03
D	What are the general banking function and prohibitory functions of Reserve bank of India.	08	03
Q.3	Explain the Following		
A	Identify the best qualitative control methods used generally by central bank.	08	03
B	NBFCs plays important role in Indian Capital Market, Discuss	07	04
	OR		
C	Illustrate on defects of Indian Money Market and suggestions to improve it.	08	04
D	What is secondary market? Discuss its functions.	07	04
Q.4	Explain the Following(any three)	15	
A	Modern Barter system.		01
B	Branch banking		02
C	Cash reserve ratio and Excess Reserves		03
D	Primary Market		04
E	Money Market Mutual Fund		04

Semester (July 2023 to October 2023)			
Examination: End Semester Examination October/November 2023 (UG Programmes)			
Programme code:30			
Programme: BSC Economics		Class: SY	Semester: III
Name of the Constituent College: S K Somaiya College		Name of the Department: Economics	
Course Code: 131U01C305		Name of the Course: Money and Banking	
Duration : 2 Hrs.		Maximum Marks : 60	
Instructions: 1)Draw neat diagrams 2)Assume suitable data if necessary			

		Max. Marks	Co Attainment
Q.1	Explain the Following		
A	What is money explain its characteristics.	07	01
B	Discuss evolution of money and its types.	08	01
	OR		
C	Differentiate between near money and money.	08	01
D	Mention social functions of commercial banks.	07	02
Q.2	Explain the Following		
A	Write in detail functions of foreign bank.	07	02
B	Briefly mention advantages and disadvantages of Unit Banking.	08	02
	OR		
C	Illustrate functions of central bank.	07	03
D	Analyze Bank Rate as a quantitative credit control method by central bank.	08	03
Q.3	Explain the Following		
A	Mention failures of Reserve bank of India.	07	03
B	Discuss the Indian Financial system with the paradigm shift in financial Market.	08	04
	OR		
C	Indian Money Market is suffering from several defects, Discuss.	07	04
D	What is primary market? Explain various functions of it.	08	04
Q.4	Explain the Following(any three)	15	
A	Write concept of money from the point of view of Gurley and Shaw.		01
B	Group banking		02
C	Demand Deposit		03
D	Advantages of study of balance sheet		02
E	Secondary Market		04