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

QUESTION PAPERS

BRANCH: Bachelor of Commerce (Hons.)	SEM: III
	OCT/NOV-2023

Sr. No.	Subject	Available
1.	131U01G101 – Quantitative Methods I (A)	
2.	131U01C301 – Organization Structure (A)	
3.	131U01C301 – Organization Structure (B), (C)	
4.	131U01C302 – Financial A/C III (A)	
5.	131U01C302 – Financial A/C III (B), (C)	
6.	131U01C303 – Company Law 2013 (A), (B)	
7.	131U01C304 – Financial Management I (A), (B)	
8.	131U01C305 – Fundamentals of OB & HR (A)	
9.	131U01C305 – Fundamentals of OB & HR (B), (C)	
10.	131U01K401 – IT in Commerce (A), (B)	
11.	131U01G101 – Quantitative Methods I (B), (C)	
12.		
13.		
14.		

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Semester (July 2023 to October 2023) **Examination: End Semester Examination October/November 2023 (UG Programmes)**		
Programme code: 01 **Programme: SYBCOM HONS.**	**Class:** SY	**Semester:** III
Name of the Constituent College: **S K Somaiya College**	**Name of the Department** Commerce	
Course Code: 131U01G101	**Name of the Course: Quantitative Methods – 1**	
Duration : 2 Hrs.	**Maximum Marks : 60**	
Instructions: 1) All Questions are compulsory 2) Figures to the right indicate full marks 3) Use of Calculator is allowed 4) Graph papers will be provided on request.		

<table>
<tr><th>Question No.</th><th></th><th>Max. Marks</th><th>Co Attainment</th></tr>
<tr><td>Q.1 a)</td><td>Draw less than ogive curve and locate median graphically for following data.

<table><tr><td>C I</td><td>15-17</td><td>17-19</td><td>19-21</td><td>21-23</td><td>23-25</td><td>25-27</td></tr><tr><td>F</td><td>70</td><td>100</td><td>120</td><td>150</td><td>100</td><td>60</td></tr></table></td><td>08</td><td>CO1,2, 6</td></tr>
<tr><td>Q.1 b)</td><td>For the following frequency distribution, obtain cumulative frequencies less than, cumulative frequency more than, relative frequency, relative frequency less than, relative frequency more than and class marks.

<table><tr><td>Marks</td><td>0-10</td><td>10-20</td><td>20-30</td><td>30-40</td><td>40-50</td><td>50-60</td></tr><tr><td>No. of students</td><td>7</td><td>11</td><td>19</td><td>7</td><td>6</td><td>10</td></tr></table></td><td>07</td><td>CO1,2, 6</td></tr>
<tr><td></td><td>OR</td><td></td><td></td></tr>
<tr><td>Q.1</td><td>Find mean, mode, Q3, P34 and D4 for following data.

<table><tr><td>Daily wages in Rs.</td><td>20-40</td><td>40-60</td><td>60-80</td><td>80-100</td><td>100-120</td><td>120-140</td></tr><tr><td>No.of workers</td><td>7</td><td>12</td><td>16</td><td>13</td><td>13</td><td>4</td></tr></table></td><td>15</td><td>CO1,2, 6</td></tr>
<tr><td>Q.2 a)</td><td>Find coefficient of variation,
<table><tr><td>Marks</td><td>10-20</td><td>20-30</td><td>30-40</td><td>40-50</td><td>50-60</td><td>60-70</td></tr><tr><td>No. of students</td><td>2</td><td>5</td><td>15</td><td>25</td><td>56</td><td>25</td></tr></table></td><td>08</td><td>CO3,4, 5,6</td></tr>
<tr><td>Q.2 b)</td><td>Find coefficient of correlation.

<table><tr><td>X</td><td>25</td><td>28</td><td>32</td><td>36</td><td>40</td><td>39</td><td>42</td></tr><tr><td>Y</td><td>28</td><td>32</td><td>25</td><td>36</td><td>23</td><td>39</td><td>40</td></tr></table></td><td>07</td><td>CO3,4, 5,6</td></tr>
</table>

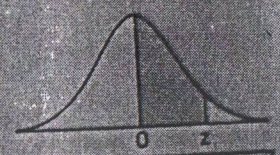
	OR		
Q.2 a)	Fit a straight-line trend using Least square method and plot data graphically. Year: 2000, 2001, 2002, 2003, 2004, 2005 Production: 105, 118, 125, 130, 150, 172	08	CO3,4, 5,6
Q.2 b)	Estimate x when y=35 also estimate y when x=40. Coefficient of correlation=0.65 Mean of x=43 Mean of y=37 s.d. of x=3.1 s.d. of y=2.8	07	CO3,4, 5,6
Q.3 a)	A box contains 20 tickets numbered from 1 to 20. A ticket is drawn at random from the box. Find the probability that the number on the ticket drawn is, 1) Not divisible by 5 2) Divisible by 2 3) Divisible by 3 or 4 4) Divisible by 3 and 4	08	CO3,4, 5,6
Q.3 b)	Draw decision tree and determine best decision for the following pay-off table.	07	CO3,4, 5,6
	OR		
Q.3	A manufacturer produces a product for Rs. 20, sells it at Rs. 40 and any balanced product has scrap value Rs. 10. Find EMV, EPPI,EVPI, EOL and determine best decision for maximum profit and minimum loss for following data.	15	CO3,4, 5,6
Q.4	Answer the following: 1) Illustrate merits and demerits of Median. 2) Find Laspeyres and Paasches index numbers for following data. 3) A committee of 5 persons is to be formed from a group of 8 boys and 7 girls. Find probability that the committee consists of 3 boys and 2 girls.	15	CO 1,2,3,4, 5,6

	excellent	good	poor
Kitkat	55	34	24
5 star	15	43	23
Perk	43	34	36
munch	45	23	19
Probability	0.3	0.6	0.1

Demand	20	30	40	50
Probability	0.1	0.3	0.2	0.4

Comm.	P0	P1	Q0	Q1
A	5	5	10	12
B	4	6	23	15
C	3	4	15	21

TABLE A1 Normal Area Table



This table gives area between mean and a specific value of z.

z	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
0.0	0.0000	0.0040	0.0080	0.0120	0.0160	0.0199	0.0239	0.0279	0.0319	0.0359
0.1	0.0398	0.0438	0.0478	0.0517	0.0557	0.0596	0.0636	0.0675	0.0714	0.0753
0.2	0.0793	0.0832	0.0871	0.0910	0.0948	0.0987	0.1026	0.1064	0.1103	0.1141
0.3	0.1179	0.1217	0.1255	0.1293	0.1331	0.1368	0.1406	0.1443	0.1480	0.1517
0.4	0.1554	0.1591	0.1628	0.1664	0.1700	0.1736	0.1772	0.1808	0.1844	0.1879
0.5	0.1915	0.1950	0.1985	0.2019	0.2054	0.2088	0.2123	0.2157	0.2190	0.2224
0.6	0.2257	0.2291	0.2324	0.2357	0.2389	0.2422	0.2454	0.2486	0.2517	0.2549
0.7	0.2580	0.2611	0.2642	0.2673	0.2704	0.2734	0.2764	0.2794	0.2823	0.2852
0.8	0.2881	0.2910	0.2939	0.2967	0.2995	0.3023	0.3051	0.3078	0.3106	0.3133
0.9	0.3159	0.3186	0.3212	0.3238	0.3264	0.3289	0.3315	0.3340	0.3365	0.3389
1.0	0.3413	0.3438	0.3461	0.3485	0.3508	0.3531	0.3554	0.3577	0.3599	0.3621
1.1	0.3643	0.3665	0.3686	0.3708	0.3729	0.3749	0.3770	0.3790	0.3810	0.3830
1.2	0.3849	0.3869	0.3888	0.3907	0.3925	0.3944	0.3962	0.3980	0.3997	0.4015
1.3	0.4032	0.4049	0.4066	0.4082	0.4099	0.4115	0.4131	0.4147	0.4162	0.4177
1.4	0.4192	0.4207	0.4222	0.4236	0.4251	0.4265	0.4279	0.4292	0.4306	0.4319
1.5	0.4332	0.4345	0.4357	0.4370	0.4382	0.4394	0.4406	0.4418	0.4429	0.4441
1.6	0.4452	0.4463	0.4474	0.4484	0.4495	0.4505	0.4515	0.4525	0.4535	0.4545
1.7	0.4554	0.4564	0.4573	0.4582	0.4591	0.4599	0.4608	0.4616	0.4625	0.4633
	[illegible]	0.4649	0.4656	0.4664	0.4671	0.4678	0.4686	0.4693	0.4699	0.4706
	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0.4744	0.4750	0.4756	0.4761	0.4767

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2.0	0.4772	0.4778	0.4783	0.4788	0.4793	0.4798	0.4803	0.4808	0.4812	0.4817
2.1	0.4821	0.4826	0.4830	0.4834	0.4838	0.4842	0.4846	0.4850	0.4854	0.4857
2.2	0.4861	0.4864	0.4868	0.4871	0.4875	0.4878	0.4881	0.4884	0.4887	0.4890
2.3	0.4893	0.4896	0.4898	0.4901	0.4904	0.4906	0.4909	0.4911	0.4913	0.4916
2.4	0.4918	0.4920	0.4922	0.4925	0.4927	0.4929	0.4931	0.4932	0.4934	0.4936
2.5	0.4938	0.4940	0.4941	0.4943	0.4945	0.4946	0.4948	0.4949	0.4951	0.4952
2.6	0.4953	0.4955	0.4956	0.4957	0.4959	0.4960	0.4961	0.4962	0.4963	0.4964
2.7	0.4965	0.4966	0.4967	0.4968	0.4969	0.4970	0.4971	0.4972	0.4973	0.4974
2.8	0.4974	0.4975	0.4976	0.4977	0.4977	0.4978	0.4979	0.4979	0.4980	0.4981
2.9	0.4981	0.4982	0.4982	0.4983	0.4984	0.4984	0.4985	0.4985	0.4986	0.4986
3.0	0.4987	0.4987	0.4987	0.4988	0.4988	0.4989	0.4989	0.4989	0.4990	0.4990
3.1	0.49903	0.49906	0.4991	0.49913	0.49916	0.49918	0.49921	0.49924	0.49926	0.49929
3.2	0.49931	0.49934	0.49936	0.49938	0.49940	0.49942	0.49944	0.49946	0.49948	0.49950
3.3	0.49952	0.49953	0.49955	0.49957	0.49958	0.49960	0.49961	0.49962	0.49964	0.49965
3.4	0.49966	0.49968	0.49969	0.49970	0.49971	0.49972	0.49973	0.49974	0.49975	0.49976
3.5	0.49977	0.49978	0.49978	0.49979	0.49980	0.49981	0.49981	0.49982	0.49983	0.49983
3.6	0.49984	0.49985	0.49985	0.49986	0.49986	0.49987	0.49987	0.49988	0.49988	0.49989
3.7	0.49989	0.49990	0.49990	0.49990	0.49991	0.49991	0.49992	0.49992	0.49992	0.49992
3.8	0.49993	0.49993	0.49993	0.49994	0.49994	0.49994	0.49994	0.49995	0.49995	0.49995
3.9	0.49995	0.49995	0.49996	0.49996	0.49996	0.49996	0.49996	0.49996	0.49997	0.49997

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Semester (July 2023 to October 2023) Examination: End Semester Examination October/November 2023 (UG Programmes)		
Programme code: 01 **Programme: BCOM(H)**	**Class:** SY	**Semester: III**
Name of the Constituent College: S K Somaiya College	**Name of the Department** Commerce	
Course Code: 131U01C301	**Name of the Course:** Organization Structure	
Duration : 2 Hrs.	**Maximum Marks : 60**	
Instructions: Draw neat diagrams wherever required		

Question No.			Max. Marks	Co Attainment
Q.1	A	Analyze the contemporary strategy – structure theory as a contributor to organization structure.	8	CO2
	B	Explain Geographic structure with its advantages and disadvantages.	7	CO1
		OR		
	C	Explain nature and characteristics of Business Activities and outline spectrum of various business activities.	15	CO4
Q.2	A	**"Hindu Undivided Family business does hold equal relevance today inspite of new forms of business."** Justify with respect to its structure, operations and comparison with new forms	15	CO3
		OR		
	B	Elaborate on Cooperative Society & Joint Stock Company	15	CO3
Q.3	A	Elaborate on Stages for International Development and what strategies (local or global) along with structure design will you use to meet domestic and international market demands.	15	CO1, CO2 & CO4
		OR		
	B	**"Privatization has led to both positive and negative impacts in the Indian economy and the world."** Justify the statement. Cite relevant examples of companies or sectors which have been recently privatized and why?	15	CO4
Q.4		Answer the following:(3 marks each)	15	
	a)	International Division		CO1, CO2 & CO4
	b)	Concept and role of commerce		CO4
	c)	Organization chart and Mintzberg 5 basic parts of organization		CO4
	d)	Industry and its types		CO1
	e)	Departmentalization and work specialization		CO4
				CO1

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Semester (July 2023 to October 2023) Examination: End Semester Examination October/November 2023 (UG Programmes)		
Programme code: 01 **Programme: BCOM(H)**	**Class:** SY	**Semester: III**
Name of the Constituent College: S K Somaiya College	**Name of the Department** Commerce	
Course Code: 131U01C301	**Name of the Course:** Organization Structure	
Duration : 2 Hrs.	**Maximum Marks : 60**	
Instructions: Draw neat diagrams wherever required		

Question No.			Max. Marks	Co Attainment
Q.1	A	You are a startup company, analyze the applicability of functional structure to your company, along with advantages and disadvantages.	8	CO1
	B	Explain the relevance of Learning organization and boundaryless organization as organization structure.	7	CO1
		OR		
	C	Evaluate the various points you will consider while setting up a business.	15	CO3
Q.2	A	**"Skill India movement has brought a revolution with respect to growth of employment opportunities."** Evaluate the impact, give suggestions what else can be done.	15	CO4
		OR		
	B	Differentiate between one-person company, Sole Proprietorship and Partnership	8	CO3
	C	**"Globalization has led to both positive and negative impacts in the Indian economy and the world."** Justify the statement. Cite with examples.	7	CO4
Q.3	A	Discuss Corporation and explain private, public and joint sector in brief.	15	CO3
		OR		
	B	Evaluate outsourcing as an option for organization structure	15	CO4
Q.4		Answer the following:(3 marks each)	15	
	a)	What are business enterprises, types, and functions?		CO3
	b)	Forces impacting Business that is business environment.		CO2
	c)	Global matrix structure		CO1,CO2
	d)	Relation between life cycle and organization structure		&CO4
	e)	Trade and its types		CO2 CO4

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Semester (July 2023 to October 2023) Examination: End Semester Examination October/November 2023 (UG Programmes)		
Programme code: 01 **Programme: BCOM(H)**	**Class:** SY	**Semester: III**
Name of the Constituent College: S K Somaiya College	**Name of the Department** Commerce	
Course Code: 131U01C301	**Name of the Course:** Organization Structure	
Duration : 2 Hrs.	**Maximum Marks : 60**	
Instructions: Draw neat diagrams wherever required		

Question No.			Max. Marks	Co Attainment
Q.1	A	Explain Henry Fayol contribution to the management school with special reference 14 principles of Management.	8	CO1
	B	Classify Strategic Dimensions and evaluate how Porters Model can help you in strategizing.	7	CO2
		OR		
	C	Think of the business you would like to do, which type of franchise you will use, Justify. Further, elaborate on functioning of Franchise and explain types.	15	CO4
Q.2	A	**"Make in India movement has brought a revolution with respect to growth of economy."** Evaluate the impact, give suggestions what else can be done.	15	CO4
		OR		
	B	Elaborate Sole Proprietorship and Partnership	15	CO3
Q.3	A	Give a detailed account on E-commerce, concept, models, disadvantages, challenges for Indian industry. Formulate some strategies to meet the challenges of e-commerce for Indian Industry	15	CO4
		OR		
	B	**"Liberalization has led to both positive and negative impacts in the Indian economy and the world."** Justify the statement. Cite with examples.	15	CO4
Q.4		Answer the following:(3 marks each)	15	
	a)	Global Geographic Division Structure		CO1 & CO4
	b)	Business activities concept, explain the different business activities as per Henry Fayol		CO1&CO4
	c)	Interrelationship between Industry, Commerce and Trade		CO4
	d)	Environmental uncertainty, three-dimensional model		CO2
	e)	Life cycle decline and growth model		CO2

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Semester (July 2023 to October 2023) **Examination: End Semester Examination October/November 2023 (UG Programmes)**		
Programme code: 01 **Programme: B.COM [H]**	**Class:** SY	**Semester:** III
Name of the Constituent College: S.K. SOMAIYA	**Name of the Department**: Commerce	
Course Code: 131U01C302	**Name of the Course: Financial A/c - III**	
Duration: 2 Hr.	**Maximum Marks: 60**	
Instructions: 1) All question are compulsory. 2) Figures to the right indicates full marks. 3) Use of simple calculator is allowed.		

Q.No		Max. Marks	CO
Q.1.	Following were the Balance Sheet of two firms M/S. A & B & M/S. C & D as on 31st March 2023.	15	01

LIABILITY	**A & B**	**C & D**	**ASSETS**	**A & B**	**C & D**
Capital: -			Cash	22,400	23,800
A	50,000	-	Furniture	8,000	8,400
B	30,000	-	Investments	14,000	11,400
C	-	50,000	Debtors	12,500	6,400
D	-	28,000	Premises	42,000	-
Creditors	16,800	25,200	Building	-	70,000
Bills Payable	7,000	-	Machinery	21,000	-
Bank Loan	14,000	11,200	Goodwill	11,900	-
Reserve	14,000	5,600			
	1,31,800	**1,20,000**		**1,31,800**	**1,20,000**

The amalgamation was made on the following terms: -

1. The New Firm decided to value goodwill of both the firms at ₹ 18,000 each.
2. For A & B the new firm took Investment& Debtors at book value. Premises at ₹75,000 & Machinery at ₹13,000. Furniture was not taken over by the new firm.
3. For C & D the new firm took Furniture & Debtors at book value. Building at ₹ 94,000. Investments were not taken over by the new firm.
4. The new firm agreed to take such cash after payments of loans made by each old firm.
5. Trade creditors of each firm were taken over at book values.

Prepare necessary ledger a/c in old firms & Balance sheet in new firm.

OR

Q.1.	Moksh & Prapti are in partnership sharing profits & losses in the proportion of 3:2. Their Balance Sheet on 31st March.2021 were as under: -			15	01

LIABILITIES	**₹**	**ASSETS**	**₹**
Capital: -		Fixed assets	1,60,000
Moksh	2,00,000	Stock	1,52,000
Prapti	1,20,000	Debtors	1,20,000
Current A/c: -		Cash	48,000
Moksh	32,000		
Prapti	8,000		

Moksh's Loan	16,000		
Creditors	1,04,000		
	4,80,000		**4,80,000**

Deep Ltd. Agreed to take over stock & Fixed Assets for a consideration of ₹ 3,20,000, Which is to be satisfied by:-

a. Payment of cash of ₹ 64,000.
b. By allotment of 1200 Preference shares of ₹100 at ₹ 80 each.
c. By allotment of 12,800 Equity shares of ₹10 at ₹ 12.50 each

Debtors realized ₹ 1,12000 & the creditors were paid ₹ 96,000 in full.
It was agreed between the partners: -

a. Equity shares are to be allotted in their profit sharing ratio.
b. Preference shares are to be allotted to Moksh to his value of Loan & the remaining preference shares to be allotted to partners equally.

Prepare necessary Ledger accounts to close the old firm.

Q2 — 15 — 02

Moksh Ltd. was incorporated to take over the running business of Deep Brothers with effect from 1st April 2021.the Company was incorporated on 1st August 2021. The following information was available from the books accounts. Which were closed on 31st March 2022

Particulars	**Rs.**	**Rs.**
Gross Profit	7,00,000	
Share Transfer Fees received	10,000	7,10,000
Expenses:		
Office Salaries		2,10,000
Partner's Salaries		60,000
Advertising		63,000
Printing Stationery		15,000
Travelling Expenses		40,000
Office Rent		96,000
Auditors Remuneration		6,000
Director's fees		10,000
Bad debts		12,000
sales commission		49,000
Preliminary exp.		7,000
Debentures Interest		16,000
Interest on capital		18,000
Depreciation		21,000

Additional Information:

(a) Monthly sales were Rs.5,00,000, for pre – corporation period, while total sales for the year were Rs.70,00,000. The sales arose evenly throughout the concerned periods.
(b) Office rent was Rs.84,000 p.a. up to 30th Sept.2021. it became Rs.1,08,000 p.a. thereafter.
© Travelling expenses included Rs.7,000 towards sales promotion.
(d)Auditors Remuneration was payable for the whole year.
(e) Bad debts written off included a debt of Rs.4,000 taken over from the vendor, while the remaining were in respect of goods sold in September,2021.
(f) Depreciation includes Rs.6,000 for asset acquired in the post incorporation period.

Prepare Profit & Loss account for the year ended 31st March 2022 in the columnar from showing profits/loss for the pre and post incorporation period.

OR

Q.2.	MUDRA Co Ltd. invited application for 1,00,000 equity shares of Rs.100 each at Rs.130 per share. The amount per share was payable as under; On Application Rs.25 On Allotment Rs.55 (including premium) On First call Rs.25 On Final Call Rs.25 Ravi, the holder of 1,000 shares, failed to pay first call money and consequently his shares were forfeited before making final call. Amit, the holder of 2,000 shares, failed to pay final call money and immediately his shares were forfeited. 3,000 forfeited shares were issued to Prashant at Rs.90 each, credited as fully paid-up. Pass the necessary journal entries in the books of Mudra Co. Ltd.	15	03
Q.3.	A.Pass Journal entries for the following Foreign Exchange transactions in the books of Mau Ltd. of Mumbai exported goods worth $ 1,00,000 on 12-1-21 to universal traders of USA. The payment for the same was received as follows: 15th February, 2021 $50,000 2nd March, 2021 $10,000 12th April, 2021 $40,000 The company follows financial year as accounting year. The exchange rate for $ 1 was as follows: 12th January, 2021 Rs.46 15th February, 2021 Rs.48 2nd March, 2021 Rs.45 31st March, 2021 Rs.49 12th April, 2021 Rs.50	10	05
	B. Case Study – Identify Functional Currency 1. N Ltd., a subsidiary in India, purchases goods from A Inc. its holding company in USA. 2. Purchases are done in USD & are based on prices in US market. 3. It sells goods in INR but the sale price is influenced by the country of holding company. 4. Other expenses are incurred locally. 5. N Ltd. Has an External commercial borrowing from A Inc. for financing its activities.	05	05
	OR		
Q.3.	Shiva Ltd. Planned an issue of 15,00,000 Equity shares of ₹ 10 each 30% of the issue was reserved for promoters & the balance was offered to the public. A, B & C have come forward to underwrite the public issue in the ratio of 3:1:1 & Also agreed for Firm underwriting of 30,000, 20,000 & 10,000 shares respectively. The underwriting commission was fixed at 4%. The amount payable on application was ₹ 2.5 per share. The details of Marked applications are: - A: - 5,50,000 shares. B: - 2,00,000 shares. C: - 1,50,000 shares Unmarked forms were received for 50,000 shares. From the above you are required to show the allocation of liability among the underwriters with workings. And pass necessary Journal Entries.	15	04

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Q.4.	Answer the followings:- [3 marks each]	15	
	1. Explain features of Amalgamation.		01
	2. Sales for each of the months July, August, September, January, February and March were twice the sales for each of the months April, May, June, October, November and December, Purchase date – 1st April 2022, Closing date – 31st March 23, date of incorporation is 1st Nov. 22. Calculate time & sales ratio.		02
	3. Explain forfeiture with example.		03
	4. A company issued 1,20,000 shares of ₹10 each. The whole issue was underwritten by X, Y & Z in the ratio of 3:2:1. The applications were received for 1,02,000 shares. Marked applications received X – 60,000 shares, Y – 20,000 shares, Z – 10,000 shares. Determined the liability of underwriters.		04
	5. From the following prepare working note to know the profit or loss on import transactions, year end is 31st March.		05

DATE	TRANSACTIONS	$	RATE
15-1-23	Import	30,000	80
15-2-23	1st Settlement	10,000	82
15-3-23	2nd Settlement	10,000	78
15-5-23	Final Settlement	10,000	85

Rate on 31st March 2023 is 1$ = ₹ 83

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Semester (July 2023 to October 2023) **Examination: End Semester Examination October/November 2023 (UG Programmes)**		
Programme code: 01 **Programme: B.COM [H]**	**Class:** SY	**Semester:** III
Name of the Constituent College: S.K. SOMAIYA	**Name of the Department**: Commerce	
Course Code: 131U01C302	**Name of the Course: Financial A/c - III**	
Duration: 2 Hr.	**Maximum Marks: 60**	
Instructions: 1) All question are compulsory. 2) Figures to the right indicates full marks. **3) Use of simple calculator is allowed.**		

Q.No		Max. Marks	CO
Q.1.	Following was the Balance Sheet of two firms M/S. X Traders & M/S. P Traders as on 31st March 2022.	15	01

LIABILITY	X Traders	P Traders	ASSETS	X Traders	P Traders
Capital: -			Goodwill	8,300	-
X	35,000	-	Machinery	15,000	-
Y	22,000	-	Building	-	50,000
P	-	36,000	Premises	30,000	-
Q	-	20,000	Debtors	9,000	4,600
Reserve	10,000	4,000	Investments	10,000	8,400
Creditors	12,000	18,000	Furniture	5,700	6,000
Bills Payable	5,000	-	Cash	6,000	9,000
	84,000	**78,000**		**84,000**	**78,000**

The amalgamation was made on the following terms: -

1. The New Firm decided to value goodwill of both the firms at ₹ 12,000 each.
2. For X traders the new firm took Investment& Debtors at book value. Premises at ₹53,000 & Machinery at ₹9,300. Furniture was not taken over by new firm.
3. For P traders the new firm took Furniture & Debtors at book value. Building at ₹ 67,000. Investments were not taken over by the new firm.
4. Trade creditors of each firm were taken over at book values.

Prepare necessary ledger a/c in old firms & Balance sheet in new firm.

OR

Q.1.	Shiva & Mau are in partnership sharing profits & losses in the proportion of 5:3. Their Balance Sheet on 31st Mar.2022 were as under: -	15	01

LIABILITIES	₹	ASSETS	₹
Capital: -		Property	40,000
Shiva	50,000	Equipment	60,000
Mau	30,000	Furniture	10,000
Current A/c: -		Investments	15,000
Shiva	10,000	Stock	25,000
Mau	30,000	Debtors	35,000
Loans	40,000	Cash	5,000
Creditors	30,000		
	1,90,000		**1,90,000**

On 31st Mar. 2022 Deep Private Ltd. Is incorporated to take over running business of this firm on the following terms: -

1. The company will pay consideration as under: -
   a. Allot 12% Preference shares of nominal value of ₹ 80,000 to be distributed in the ratio of capital.
   b. Issue Equity shares at par of nominal value of ₹ 1,00,000.
   c. Cash ₹ 20,000.
2. The company takes over all the assets & liabilities except Investments & Bank balance. The firm owns vehicle worth ₹ 25,000 which is fully written off. The vehicle is also taken over by the company.
3. Investments are taken over by Mau at agreed value of ₹ 20,000.
4. The company revalued property at ₹ 80,000, Equipment at ₹ 50,000, furniture ₹ 5,000, Vehicle ₹ 25,000, Stock ₹ 27,000 & Debtors ₹ 33,000. The company allotted 10% Debentures towards payment of Loan.

Prepare necessary Ledger accounts in the books of Old Firm.

Q2 Deep Ltd. was incorporated on 1st August 2021 to acquire a business as on 1st April 2021. The first accounts were closed on 31st March 2022. 15 02

The following items appeared in the profit and loss Accounts.

Profit and Loss account for year ended 31st March 2022

Particulars	Rs.	Particulars	Rs.
Director's fees	49,000	By Gross Profit	9,60,000
Rent	85,500		
Bad debts	12,000		
Salaries	1,83,000		
Interest on Debentures	24,000		
Depreciation	66,000		
Preliminary Expenses	42,000		
General Expenses	49,200		
Commission On Sale	36,000		
Printing& Stationary	93,000		
Advertising	1,20,500		
Auditor's Fees	58,600		
Carriage outwards	72,800		
Electricity Charges	44,400		
Insurance Premium	24,000		
	9,60,000		**9,60,000**

Additional Information:

(a) Rent is paid on the basis of floor space occupied. Floor space occupied was doubled in the post incorporation period.

(b) Sales for each month of December 2020 to March, 2022 were double the month's sales of April to November, 2021.

(c) Bad Debts Rs.500, were in respect of Sales affected two years ago.

(d) Mr. Amit was working partner in the firm entitled to remuneration @ Rs. 12,000 p.m. From 1st August, 2021 he was managing Director of a company entitled to salary @ Rs. 15,000 p.m. The remaining salary is to two Clerks employed during the period of 1st July to 30th November, 2021.

You are required to prepare profit and loss account for the year ended 31st March, 2022 and show pre and post incorporation period profit or loss.

OR

Q.2.	Shiva Co Ltd. invited application for 10,000 equity shares of Rs.10 each at Rs.12 per share. The amount per share was payable as under; On Application Rs.2.5 On Allotment Rs.4.5 (including premium) On First call Rs.2.5 On Final Call Rs.2.5 Applications came for 13,000 shares from that company rejected 1,000 shares & make allotment on pro rata for remaining applications. Om, the holder of 100 shares, failed to pay first call money and consequently his shares were forfeited before making final call. Rohit, the holder of 200 shares, failed to pay final call money and immediately his shares were forfeited. 300 forfeited shares were issued to Prapti at Rs.9 each, credited as fully paid-up. Pass the necessary journal entries in the books of Shiva Co. Ltd.	15	03
Q.3.	A.Pass Journal entries for the following Foreign Exchange transactions in the books of Prapti Ltd. of Mumbai exported goods worth $ 50,000 on 1-1-21 to M traders of USA. The payment for the same was received as follows: 10th February, 2021 $10,000 5th March, 2021 $10,000 25th April, 2021 $15,000 1st May 2021 $15,000 The company follows financial year as accounting year. The exchange rate for $ 1 was as follows: 1th January, 2021 Rs.48 10th February, 2021 Rs.50 5th March, 2021 Rs.47 31st March, 2021 Rs.50 25th April, 2021 Rs.51 1st May 2021 Rs.48	10	05
	B. Case Study – Identify Functional Currency 1. X Ltd., a subsidiary in India, purchases goods from M Inc. its holding company in USA. 2. Purchases are done in USD & are based on prices in US market. 3. It sells goods in USD but the sale price is influenced by the country of holding company. 4. Other expenses are incurred locally. 5. X Ltd. Has an External commercial borrowing from M Inc. for financing its activities.	05	05
	OR		
Q.3.	Pooja Ltd. Came up with the public issue of 15,00,000 Equity Shares of ₹ 10 each at ₹ 15 per share. X, Y & Z took underwriting of the issue in 3:2:1 ratio. Applications were received for 13,50,000 shares. The Marked Applications were received as under: - X: - 4,00,000 shares. Y: - 3,50,000 shares. Z: - 3,00,000 shares. Commission payable to underwriters is 5% on face value of shares. 1. Calculate the liability of each underwriter's as regards the number of shares to be taken up. 2. Pass Journal Entries in the books of Pooja Ltd.	15	04

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Q.4.	Answer the followings:- [3 marks each]	15	

1. Explain Amalgamation of Partnership Firms. 01
2. Closing date is 31st March. & Date of incorporation is 1st Oct., calculate time ratio. Total sales during the year, which amounted to Rs. 96,00,000 arose evenly up to the date of the Certificate of incorporation, where after they spurted to increase of two-thirds during the rest of the year. Calculate sales ratio. 02
3. Explain Calls in Advance & Calls in Arrears with examples. 03
4. A company issued 2,40,000 shares of ₹10 each. The whole issue was underwritten by P, Q & R in the ratio of 3:2:1. 04
   The applications were received for 2,04,000 shares.
   Marked applications received P – 1,20,000 shares, Q – 40,000 shares, R – 20,000 shares. Determined the liability of underwriters.
5. From the following prepare working note to know the profit or loss on import transactions, year end is 31st March. 05

DATE	TRANSACTIONS	$	RATE
20-1-23	Import	60,000	84
20-2-23	1st Settlement	20,000	83
20-3-23	2nd Settlement	20,000	85
20-5-23	Final Settlement	20,000	86

Rate on 31st March 2023 is 1$ = ₹ 87

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Semester (July 2023 to October 2023) **Examination: End Semester Examination October/November 2023 (UG Programmes)**		
Programme code: 01 **Programme: B.COM [H]**	**Class:** SY	**Semester:** III
Name of the Constituent College: S.K. SOMAIYA	**Name of the Department**: Commerce	
Course Code: 131U01C302	**Name of the Course: Financial A/c - III**	
Duration: 2 Hr.	**Maximum Marks: 60**	
Instructions: 1) All question are compulsory. 2) Figures to the right indicates full marks. 3) Use of simple calculator is allowed.		

Q.No		Max. Marks	CO
Q.1.	Following were the Balance Sheet of two firms M/S. P & Q & M/S. R & S as on 31st March 2023.	15	01

LIABILITY	P & Q	R & S	ASSETS	P & Q	R & S
Capital:-			Building	80,000	-
P	1,00,000		Machinery	1,00,000	70,000
Q	1,00,000		Patterns	20,000	14,000
R		54,000	Furniture	12,000	20,000
S		54,000	Debtors	60,000	50,000
Creditors	1,20,000	60,000	Stock	88,000	42,000
Bills Payable	42,000	36,000	Cash	2,000	8,000
	3,62,000	**2,04,000**		**3,62,000**	**2,04,000**

M/s P & Q were sharing profits & losses in the ratio of 3:1 & R & S were sharing equally.

The two firms were amalgamated on that date & assets & liabilities were revalued as follows:-

1. Building was appreciated by 20% but Machinery of both the firms were depreciated by 10%.
2. Patterns of P&Q were revalued at ₹ 16,000 & for R & s ₹ 20,000.
3. 5% reserve for doubtful debts is to be provided on debtors of both the firms.
4. Reserve 2% discount on Creditors of both the firms.
5. Furnitures of both the firms were taken at 5% depreciation.
6. Other assets & liabilities were taken at book values.

Prepare Ledger accounts in the books of Old Firms & Balance Sheet in the books of New Firm.

OR

Q.1.	Amit & Prashant are in partnership sharing profits & losses in the proportion of 5:3. Their Balance Sheet on 31st Dec.2023 were as under:-		15	01

LIABILITIES	₹	ASSETS	₹
Capital:-		Property	80,000
Amit	1,00,000	Equipment	1,20,000
Prashant	60,000	Furniture	20,000
Current A/c:-		Investments	30,000
Amit	20,000	Stock	50,000
Prashant	60,000	Debtors	70,000

Loans	80,000	Cash	10,000
Creditors	60,000		
	3,80,000		**3,80,000**

On 31st Dec. 2023 Ravi Private Ltd. Is incorporated to take over running business of this firm on the following terms:-

1. The company will pay consideration as under:-
   a. Allot 10% Preference shares of nominal value of ₹ 1,60,000 to be distributed in the ratio of capital.
   b. Issue Equity shares at par of nominal value of ₹ 2,00,000.
   c. Cash ₹ 40,000.
2. The company takes over all the assets & liabilities except Investments & Bank balance. The firm owns vehicle worth ₹ 50,000 which is fully written off. The vehicle is also taken over by the company.
3. Investments are taken over by Mr. Prashant at agreed value of ₹ 40,000.
4. The company revalued property at ₹ 1,60,000, Equipment at ₹ 1,00,000, furniture ₹ 10,000, Vehicle ₹ 50,000, Stock ₹ 54,000 & Debtors ₹ 66,000. The company allotted 12% Debentures towards payment of Loan.

Prepare necessary Ledger accounts in the books of Old Firm.

Q2 Prapti company Limited took over the business of Shiva and Sons, a firm w.e.f. 1st April 2023. The company was registered on 1st November2023 profit and loss account for the year ended 31st March 2024 was as under: 15 02

PARTICULARS	**Rs.**	PARTICULARS	**Rs.**
To Salaries	2,40,000	By Gross Profit b/d	12,60,000
To Rent and Taxes	1,80,000		
To Printing & Stationery	96,000		
To Audit fees	30,000		
To Sundry Expenses	24,000		
To Carriage outward	90,000		
To Advertising	63,000		
To Electricity charges	72,000		
To Commission on sales	1,08,000		
To Debentures Interest	28,000		
To Depreciation	42,000		
To Interest on purchase consideration	27,000		
To Net Profit c/d	2,60,000		
	12,60,000		**12,60,000**

Additional Information:

Sales for each of the months July, August, September, January, February and March were twice the sales for each of the months April, May, June, October, November and December.

Depreciation shown above, include depreciation on furniture worth Rs.2,40,000 @ 10% and on Delivery van worth Rs.90,000 @ 20%. Both these assets were taken over from the vendor.

Prapti company Ltd. settled purchase consideration on 1st January 2024.

Audit fees are payable for the whole year.

Prepare profit and loss account for the year ended 31st March,2024 showing profits for pre incorporation periods separately.

OR

Q.2.	Prashant Co. Ltd. invited application for 20,000 of its equity shares of Rs.10 each at a premium of Rs.2 per share, payable Rs.3 on application, Rs.7 on allotment including premium and the balance on first and final call. Applications for 25,000 shares were received. It was decided. to refuse allotment to the applicants for 1,000 shares. to allot in full to applicants for 4,000 shares. to allot the balance of available shares in pro-rata among the other applicants and to utilize excess application moneys in part payment of allotment moneys. Miss. Mau holding 100 shares to whom, full allotment was made failed to pay the amount due on call only. These shares were forfeited. All shares of Miss. Mau were re-issued at Rs.9 per share. Show the journal entries in the books of Prashant Co. Ltd.	15	03
Q.3.	A. Sai Associates, Surat purchased raw material from Thomas INC New York, U.S.A. of US $ 50,000 on 1st January 2008. The payments were made as under: The exchange rate on 1/1/2008 and 31/3/2008 were Rs.40 per $ and Rs.42 per $ respectively. You are required to pass Journal Entries in the books of Prashant associates, indicating clearly amount in $, rate of exchange, and amount in rupees. Sai Associate follows financial year as accounting year.	10	05

Date of Payment	US $	Exchange rate Rs. per $
1/2/2008	10,000	41
1/3/2008	25,000	39
1/4/2008	10,000	39
1/5/2008	5,000	41

	B. Case Study – Identify the Functional Currency:- 1. USA Ltd (U) owns a subsidiary in India, Dragon Ltd (D). 2. D assembles all goods in India using a combination of locally sourced materials and materials manufactured by U. 3. All goods are then exported and sold in Australia, based on selling prices determined by U and influenced by Indian market. 4. The company has a loan from an Indian Bank	05	05
	OR		
Q.3.	Moksh Ltd. Came up with the public issue of 30,00,000 Equity Shares of ₹ 10 each at ₹ 15 per share. A, B & C took underwriting of the issue in 3:2:1 ratio. Applications were received for 27,00,000 shares. The Marked Applications were received as under:- A:- 8,00,000 shares. B:- 7,00,000 shares. C;- 6,00,000 shares. Commission payable to underwriters is 5% on face value of shares. Calculate the liability of each underwriter as regards the number of shares to be taken up. Pass Journal Entries in the books of Moksh Ltd.	15	04
Q.4.	Answer the followings:- [3 marks each] 1. Explain the methods of purchase consideration. 2. Closing date is 31st Dec. & Date of incorporation is 1st April, calculate time ratio. And Total sales for the year amounted to Rs.8,00,000 arose evenly per month up to 30-09-22, where after they recorded, an increase of 2/3rd per month during the rest of the period, Purchase date – 1st April 2022, Closing date – 31st March	15	01 02

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	23, date of incorporation is 1st Aug. 22. Calculate sales ratio. 3. Explain over & under subscription with examples. 4. A company issued 60,000 shares of ₹10 each. The whole issue was underwritten by A, B & C in the ratio of 3:2:1. The applications were received for 51,000 shares. Marked applications received A – 30,000 shares, B – 10,000 shares, C – 5,000 shares. Determined the liability of underwriters. 5. From the following prepare working note to know the profit or loss on export transactions, year end is 31st March.		03 04 05

DATE	TRANSACTIONS	$	RATE
1-1-23	Export	15,000	85
1-2-23	1st Settlement	5,000	80
1-3-23	2nd Settlement	5,000	87
1-5-23	Final Settlement	5,000	90

Rate on 31st March 2023 is 1$ = ₹ 88

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Semester (July 2023 to October 2023) **Examination: End Semester Examination October/November 2023 (UG/PG Programmes)**		
Programme code: 01 **Programme: SYBCOM(H)**	**Class:** SY	**Semester:** III
Name of the Constituent College: **S.K.Somaiya College**	**Name of the Department:** Commerce	
Course Code: 131U01C303	**Name of the Course: Company Law,2013**	
Duration: 2 Hrs.	**Maximum Marks: 60**	
Instructions: All the questions are mandatory.		

Question No.		Max. Marks	Co Attainment
Q.1	A. The company, while its registration requires you to submit many documents. Some documents for declaration by the experts, some giving information relating to the internal organization of the company. Some are for advertisement of Shares of the company and some which are providing the framework to the company. Explain the documents giving company its framework with its clauses. (8)	15	CO 1
	B. Supersonic is a Private company. During the registration procedure the company submitted documents such as MOA, AOA. The Prospectus was not required. all The Public company requires to submit the Prospectus during registration procedure. In your opinion which company is at an advantage. Explain with a list of advantages and disadvantages of Private Company. (7)		CO 1
	OR		
	C. Ms. Siddhi, an MBA graduate, decided to start her own business. She is confused about which type of business to start. As she never took her Law subject seriously, she is unaware of the difference between Partnership and Company. Explain to her the difference by giving all details relating to characteristics of a company. (15)		CO 1
Q.2	A. Mr. Shah was a shareholder of Atlas co. After the death of Mr. Shah his shares transferred to his son whose age is 16 years. The brother of Mr. Shah objected to this transfer as son of Mr. Shah is a minor child. As a Law subject student	15	CO 2

	explain this brother provisions relating termination of membership of a company. (8) B. Mr. Kartik is a wealthy person who is always doing some of the charity work. He has his own NGO under which he is helping the needy ones. But the NGO has its own shortcomings. Mr. Kartik is thinking of starting a Company whose main motto will be welfare of the society. Explain such type of company with all the provisions. (7) OR C. Even though the shareholders of the company are the owners of the company, they cannot participate in the management of the company. In such a situation the Directors who are the managers of the company can take undue advantage of their position. For regularization of such a situation the Company act 2013 made some amendment by introduction of Independent Director. Discuss in detail provision relating to the independent Director of the company. (15)		CO 2 CO 3
Q.3	A. Ozem Co. is a Public company. Within twelve months from their incorporation, they had a Subsidiary meeting with all the Directors of the company. Now the company is in their second year. In the first year the company missed one type of meeting. Also, as and when required they can convey meetings to discuss the urgent matters. Explain in detail these meetings. (8) B. Atlasi company is Private company. The company's Board of Directors consist of 10 male Directors. The company was formed in 1966. In the year 2017 a meeting is going to be held for appointment of Directors. According to Company Law 2013, a Woman Director is a must. Explain provision relating to the Woman Director in detail. (7) OR C. Some shareholders get the voting rights whereas some shareholders get the arrears of dividend. Specify the types of shares discussed above and explain their difference. (15)	15	CO 3 CO 3 CO4
Q.4	**EXPLAIN THE FOLLOWING QUESTIONS:**	15	

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	Dimzim Diamond's Public company has issued shares through prospectus. The directors of the company are under fear that the company will be acquired by the Government. So, the directors hold urgent Class meetings to make urgent decisions. As a result, the AOA of the company got altered to make provision for buy back of the shares. A. Explain what Government co. and compare it with statutory co. (5) B. Write a note on Class meeting. (5) C. Enumerate the contents of AOA. (5)		**CO 1** **CO 4** **CO 2**

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Semester (July 2023 to October 2023) **Examination: End Semester Examination October/November 2023 (UG/PG Programmes)**		
Programme code:01 **Programme: SYBCOM(H)**	**Class:** SY/TY	**Semester:** III/V
Name of the Constituent College: **S.K.Somaiya College**	**Name of the Department:** Commerce	
Course Code: 131U01C303	**Name of the Course: Company Law,2013**	
Duration: 2 Hrs.	**Maximum Marks: 60**	
Instructions: All the questions are compulsory.		

Question No.		Max. Marks	Co Attainment
Q.1	A. Explain format of One person company and provision relating to Foreign company. (8) B. The Private co is not allowed to issue Prospectus. Is it an advantage or disadvantage, what is your opinion? (7) OR C. Omex is a Private company. The company is making misstatements in Prospectus by publishing wrong financial statements for the previous years. The Company Tribunal passed judgment against the company to pay a fine of Rs. 20 Lakhs and imprisonment of 7 years. Is it possible for companies to commit such crimes? Discuss the provision if the crime is committed by one of the Directors of the company? (15)	15	CO 1 CO 1 CO 1
Q.2	A. The Public company is issuing Prospectus. Write down the detailed contents of the Prospectus. (8) B. MOA is like the base of any company. It's giving a framework to the company. Discuss whether such a framework can be altered by giving examples of alteration of registered office clauses. (7) OR C. Discuss the provisions relating to termination of membership of a company and explain one scam in the company. (15)	15	CO 2 CO 2 CO 2
Q.3	A. Write down the difference between Preference shares and Equity shares. (8)	15	CO 4

	B. Describe the features and advantages of equity shares. (7) OR C. BlockBuster is a Public company that has the object of movie distribution. In 1996 the company earned huge profits. The owner of a company has decided to appreciate the hard work of the employees of the company. Hence during Diwali festival, he allotted shares to its employees for their hard work as a bonus. Explain provision relating to Sweat Equity Share and Bonus shares of the company. (15)		CO 4 CO 3
Q.4	**EXPLAIN THE FOLLOWING QUESTIONS:** Bidani Public company's audit was carried out in the month of December 2022. The company was suggested changes regarding the issue of Private Placement, the appointment of a woman director. The company holds a meeting before the annual general meeting to discuss these issues. A. Write a note on the type of meeting held in between two annual general meetings. (5) B. As a Law learner explains to the directors of a company the provision relating to women directors. (5) C. Enumerate in short, the issue of Private Placement. (5)	15	CO 3 CO 3 CO 2

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Semester: July – November 2023 **Examination: ESE Examination (UG Program)**		
Programme code: 01 **Programme: B.Com (hons.)**	**Class:** SY	**Semester: III (SVU 2023)**
Name of the Constituent College: **S. K. Somaiya College (SKSC)**	**Name of the department/Section/Center:** Commerce	
Course Code: 131U01C304	**Name of the Course: Financial management – I**	
Instructions: 1) All questions are compulsory 2) Figures to the right indicates full marks		

Q. No.		Max. Marks - 15	CO
Q. No. 1 A	ABC Ltd is evaluating the purchase of a new machinery with a depreciable base of rs 1,00,000; expected economic life of 4 years and change in earnings before taxesand depreciation of rs 45,000 in year 1, rs 30,000 in year 2, rs 25,000 in year 3 and rs 35,000 in year 4. Assume straight-line depreciation and a 20% tax rate. You arerequired to COMPUTE relevant cash flows, calculate NPV, Payback period, discounted payback period. Discounting rate = 10%.	15	CO2, CO5
	OR		
B	The expected cash flows of three projects are given below. The cost of capital is 10 per cent. (a) CALCULATE the payback period, net present value, profitability index (b) IDENTIFY the rankings of the projects by each of the four methods.(NPV, Payback period, discounted payback period) (Figures in '000)	15	CO2, CO5
Q. No. 2		15	
A.	Hetvi Ltd has 10 lakh equity shares of rs 10 each	15	CO1

Period	Project A	Project B	Project C
0	(5000)	(5000)	(5000)
1	900	700	2000
2	900	800	2000
3	900	900	2000
4	900	1100	1000
5	900	1200	
6	900	1300	
7	900	1400	
8	900	1500	
9	900	1600	
10	900	1700	

	reserves of rs 1 crocre 14% debentures of rs 100 each ; total worth rs 1 crore last year the company has paid a dividend of 15%, the dividend is expected to grow @8% p.a .current market price of an equity shares is rs 40, tax rate =50% Calculate 1. WACC 2. the company plans to raise additional 5 crores by way of long term loan @16% interest. In that case the market price of an equity share will fall to rs 25. calculate new WACC.		
	OR		
B.	Calculate cost of debentures under different situations 1. Debentures are sold at par and floatation cost is 2% 2. Debentures are sold at a premium of 5% and floatation costs are 5% of the issue price. 3. Debentures are sold at a discount of 10% and floatation costs are 5% of the issue price for the purpose of calculation – interest rate is 15%, face value = rs 100, maturity period is 10 years, tax rate = 35%	07	CO1, CO3
C.	Superior Ltd issues rs 100 preference shares with dividend of 12% and floatation cost of 2.5% . Calculate its cost of equity and preference shares. It also issues equity shares with a floatation cost of 2% on face value of rs 10	08	CO1
Q. No. 3 A	Explain the different sources of finance and their features.	15	CO 3
	OR		
B.	Cost of a new mobile is rs 80,000 after 5 years. How much should Ravi save every year in order to afford 80,000 after 5 yers if interest rate is 8%. Would the amount change if interest rate changed to 8%.	08	CO4
C.	Mrs. Rao has invested rs 20,00,000 in fixed deposit for 8 years. Rate of interest is 8%. What will be the maturity value. Show all calculations	07	CO4
Q 4	Explain the below terms (3 marks * 5 questions)	15	
A	Describe the term capital budgeting		CO3
B	Explain the concept of capital rationing		CO5
C	Discuss the statement "More of tax savings can improve the company's profitability"		CO2
D	Elaborate on the term capital structure.		CO1
E	Explain the concept of time value of money		CO4

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Semester: July – November 2023 **Examination: ESE Examination (UG Program)**		
Programme code: 01 **Programme: B.Com (hons.)**	**Class:** SY	**Semester:** III **(SVU 2023)**
Name of the Constituent College: **S. K. Somaiya College (SKSC)**	**Name of the department/Section/Center:** Commerce	
Course Code: 131U01C304	**Name of the Course: Financial management – I**	
Instructions: 1) All questions are compulsory 2) Figures to the right indicates full marks		

Q. No.		Max. Marks - 15	CO
Q. No. 1.	The National Transport Company has a number of large trucks., National Transport Company can purchase a new truck for rs 3,80,000. Its salvage value will be rs 30,000 after its useful life of 12 years. The total annual revenues of the new truck will be rs 200,000 and its operating cost will be rs110,000 per year. Required rate of return = 15%, discounting factor = 9% Calculate NPV, Payback period, tax rate for the firm is 10%.the company sourced 30% of the capital	15	CO3
	OR		
B	Given the cash flows of the four projects, A, B, C, and D, and using the NPV,, Payback Period, Discounted payback period decision model, which projects do you accept and which projects do you reject with a three year cut-off period for recapturing the initial cash outflow? Assume that the cash flows are equally distributed over the year for Payback Period calculations	15	CO2,CO5

YEAR	A	B	C	D
0	10	25	45	100
1	4	2	10	40
2	4	8	15	30
3	4	14	20	20
4	4	20	20	10
5	4	26	15	0
6	4	32	10	0

Q. No. 2		15	
A.		15	CO1

SOURCE	
9% DEBENTURE	2,50,000
8%PREFERENCE SHARE	2,50,000
EQUITY	5,00,000
general reserve	1,50,000
tax rate	20%

	Growth rate 18% Last years dividend 25 Rs Calculate WACC. Both debenture and preference of are for a period of 10 years. Debentures are issued at par and redeemable at a premium if 10%. Preference shares are issued at a premium of 5% redeemable at a premium of 10%.		
OR			
C.	Calculate cost of debentures under different situations 1. Debentures are sold at par and floatation cost is 5% 2. Debentures are sold at a premium of 10% and floatation costs are 5% of the issue price. 3. Debentures are sold at a discount of 5% and floatation costs are 5% of the issue price for the purpose of calculation – interest rate is 15%, face value = rs 100, maturity period is 10 years, tax rate = 35%	07	CO3
D.	Superior Ltd issues rs 100 preference shares with dividend of 12% and floatation cost of 5% . Calculate its cost of equity and preference shares. It also issues equity shares with a floatation cost off 2% on face value of rs 10	08	CO3
Q. No. 3 A	Explain the different sources of finance and their features. Give examples for each source.	15	CO1
	OR		
B.	Cost of a new mobile is rs 50,000 after 5 years. How much should Ravi save every year in order to afford 50,000 after 5 yers if interest rate is 8%. Would the amount change if interest rate changed to 8%.	08	CO4
C.	Mrs. Rao has invested rs 10,00,000 in fixed deposit for 8 years. Rate of interest is 8%. What will be the maturity value. Show all calculations	07	CO4
Q 4	**Explain the below terms (3 marks * 5 questions)**	15	
A	**Describe the term capital budgeting**		CO2
B	**Explain the concept of capital rationing**		CO5
C	**Discuss the statement "More of tax savings can improve the company's profitability"**		CO1
D	**Elaborate on the term capital structure.**		CO4
E	**Explain the concept of time value of money**		

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Semester (July 2023 to October 2023) **Examination: End Semester Examination October/November 2023 (UG/PG Programmes)**		
Programme code: 01 **Programme: BCOM H**	**Class:** SY	**Semester:** III
Name of the Constituent College: S K Somaiya college	**Name of the Department** Commerce	
Course Code: 131U01C305	**Name of the Course: Fundamentals of OB & HR**	
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. "Personality is the result of internal and external behaviour", keeping this statement in mind, State various personality attributes which influence Organisational behaviour.	8	CO 1
	a. Explain Integrated Individual behaviour model with the help of diagrams for different situations.	7	CO 1
	OR		
	b. State and explain Myers Briggs sixteen personality types in detail and state why personality is very important in framing organizational behaviour.	15	CO 1
Q.2	a. Explain Ethical decision making. State the process and framework of ethical decision making.	7	CO 2
	b. Explain Urwick's Z theory in detail and state why each employee should have relation with organizational goals.	8	CO 2
	OR	15	CO 2
	c. Describe "Groups" in detail and state the characteristics and process of Group formation.		
Q.3	a. Explain Power in the context of organizational situation and basis of Power which are suitable for different organisational styles.	15	CO 3
	OR		
	b. Describe Leadership and State various styles of Leadership in detail.	15	CO 3
Q.4	Explain the following conceptual questions:	15	CO 4

	a. Describe Approach-approach conflict in detail. b. Explain how Protest is the result of conflict. c. Explain International capitalism theory of Conflict. d. Explain Negotiation and its characteristics. e. Describe the differentiation perspective of Organisational culture.		

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Semester (July 2023 to October 2023) Examination: End Semester Examination October/November 2023 (UG/PG Programmes)		
Programme code: 01 **Programme: BCOM H**	**Class:** SY	**Semester:** III
Name of the Constituent College: S K Somaiya college	**Name of the Department** Commerce	
Course Code: 131U01C305	**Name of the Course: Fundamentals of OB & HR**	
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. Describe various challenges faced by managers due to organisational behaviour and the ways to overcome it.	7	CO 1
	b. Describe any seven personality types stated by Myers and Briggs and explain them in detail.	8	CO 1
	OR		
	c. Explain the Attribution theory given by Harold kelley in detail and how Organizational behaviour contributes to the employee performance.	15	CO 1
Q.2	a. Describe emotions and compare how Emotions and moods are different from each other.	7	CO 2
	b. Explain Mc gregor's participation theory in detail and state why employee participation is necessary in decision making.	8	CO 2
	OR	15	CO 2
	c. Describe Teams and State various types of teams which can be created in the organizational structure.		
Q.3	a. Explain individual decision making styles and compare between Individual decision making and group decision making.	15	CO 3
	OR	15	CO 3
	b. State ten leadership styles and elaborate them in detail with the help of examples.		
Q.4	Explain the following conceptual questions:		

	a. Describe interpersonal conflict in detail. b. Explain how revolt is the result of conflict. c. Explain in detail, "Structural theory of conflict." d. State and explain the concept of "Organisational culture" e. Describe the fragmentation perspective of Organisational culture.		

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Semester (July 2023 to October 2023) Examination: End Semester Examination October/November 2023 (UG/PG Programmes)		
Programme code: 01 Programme: BCOM H	Class: SY	Semester: III
Name of the Constituent College: S K Somaiya college	Name of the Department Commerce	
Course Code: 131U01C305	Name of the Course: Fundamentals of OB & HR	
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. "Your personality is the type of person you are, which is shown by the way you behave, feel and think." keeping this statement in mind, state the characteristics of personality.	7	CO 1
	b. Explain MARS model of personality in detail with the help of diagrams.	8	CO 1
	OR		
	c. Explain the meaning of perception, Describe the process of perception and the perceptual distortion.	15	CO 1
Q.2	a. State and explain Attitude and Describe the types of Attitude.	7	CO 2
	b. Explain McClelland's need theory in detail and state why need is important to motivate a person to work.	8	CO 2
	OR	15	CO 2
	c. Describe Job characteristics model in detail with the help of a diagram and state its benefits and limitations.		
Q.3	a. Explain the rational decision making model and its characteristics in detail and state the process of carrying out rational decisions.	15	CO 3
	OR	15	CO 3
	b. Explain the following theories of leadership i. Great man theory of leadership ii. Traits theory of leadership iii. Contingency theory of leadership		

Q.4	Explain the following conceptual questions: a. Describe Conflict existing in various situations. b. Explain how Mutiny is the result of conflict c. Explain in detail, "Marxist theory of Conflict". d. Describe Organisational culture in its integration perspective. e. Explain the concept of "Clan Culture" in detail.	15	CO 4

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Semester (July 2023 to October 2023) Examination: End Semester Examination October/November 2023 (UG/PG Programmes)		
Programme code: 01 **Programme: BCOM(H)**	**Class:** SY	**Semester:** III
Name of the Constituent College: S K Somaiya College	**Name of the Department** Commerce	
Course Code: 131U01K401	**Name of the Course: IT IN COMMERCE**	
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	Compare between MS-Excel and Google Sheets	7	CO1,CO2
	B	Explain how professional E-mails work and MIME purpose	8	
		OR		
	C	Describe the different applications in different sectors in which R-software has its application	15	CO1,CO2
Q.2	A	Evaluate how Search Engine works with Web Browsers	8	CO2,CO3
	B	Explain R-software used by which companies and how	7	
		OR		
	C	Explain CSS and its types in detail with examples	7	CO2,CO3
	D	Differentiate between Traditional Commerce and E-commerce	8	
Q.3	A	Write HTML code for the following output:	15	CO4

CSS3 Browser Support (latest browser versions)

CSS Property	Internet Explorer	FireFox	Chrome	Safari	Opera
Border Radius	YES	YES	YES	YES	YES
Box Shadow	YES	YES	YES	YES	YES
CSS Animations	NO	NO	YES	YES	NO

	OR			

B	Write HTML code for the following output: **Preceding Text** I. List Item 1 a. Nested Item 1.1 b. Nested Item 1.2 II. List Item 2 1. Nested Item 2.1 2. Nested Item 2.2 o Nested Item 2.2.1 o Nested Item 2.2.2 ▪ Nested Item 2.2.2.1 ▪ Nested Item 2.2.2.2 o Nested Item 2.2.3 3. Nested Item 2.3 III. List Item 3 o Nested Item 3.1 o Nested Item 3.2 o Nested Item 3.3	15	CO4
Q.4	Solve the following:(3 marks each) 1) Convert the following into Octal a) (198)10 b) (10111010101110110)2 c) (CDE98)16 2) Perform Number System Subtraction a) (76453)8 - (12345)8 b) (DEF56)16 – (78912)16 c) (11101011011)2 – (110011110)2 3) Convert the following into Hexadecimal a) (227)10 b) (756653)8 c) (1011101101111010 11)2 4) Convert the following into Decimal a) (11011011)2 b) (354)8 c) (F9)16 5) Perform Number System Addition a) (101111010110)2 + (110110110)2 b) (FF4DE)16 + (BC432)16 c) (7443)8 +(5343)8	15	CO1,CO2

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Semester (July 2023 to October 2023) Examination: End Semester Examination October/November 2023 (UG/PG Programmes)		
Programme code: 01 **Programme: BCOM(H)**	**Class:** SY	**Semester:** III
Name of the Constituent College: S K Somaiya College	**Name of the Department** Commerce	
Course Code: 131U01K401	**Name of the Course: IT IN COMMERCE**	
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	Explain the basic functions used in MS-Excel	8	CO1,CO2, CO3
	B	Elaborate about URL and Domain Name System	7	
		OR		
	C	Describe briefly about features used in Power Point Presentation	7	CO1,CO2, CO3
	D	Evaluate the different commands used in R-statistical software	8	
Q.2	A	Give the pros and cons of E-commerce	8	CO2, CO3,CO4
	B	Differentiate between Web Browser and Search Engine	7	
		OR		
	C	Explain about E-governance and its types with examples	8	CO1,CO2, CO3
	D	Describe briefly about different Protocols	7	
Q.3	A	Write HTML code for the following output:	15	CO4

No.	Full Name	Position	Salary
1	Bill Gates	Founder Microsoft	$1000
2	Steve Jobs	Founder Apple	$1200
3	Larry Page	Founder Google	$1100
4	Mark Zuckeberg	Founder Facebook	$1300

		OR		

B	Write HTML code for the following output:
	
	# GeeksforGeeks
	
	## Nested Unordered List
	
	GeeksforGeeks courses list:
	
	• DSA
	  ○ Array
	  ○ Linked List
	  ○ stack
	  ○ Queue
	• Web Technologies
	  ○ HTML
	  ○ CSS
	  ○ JavaScript
	• Aptitude
	• Gate
	• Placement
			CO4

Q.4	Solve the following:(3 marks each) 1) Convert the following into Hexadecimal a) (1110101011101111101)2 b) (76543)8 c) (239)10 2) Perform Number System Addition a) (ED329)16 + (AB67)16 b) (1011011001)2 + (1110111)2 c) (76453)8 + (23421)8 3) Convert the following into Decimal a) (176)8 b) (DE) 16 c) (11011011)2 4) Perform Number System Subtraction a) (11101010001)2 – (10110111)2 b) (DFE78)16-(AB432)16 c) (65463)8 – (23422)8 5) Convert the following into Octal a) (1010111101010010011)2 b) (229)10 c) (CE98F)16	15	CO1,CO2,

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Semester (July 2023 to October 2023) **Examination: End Semester Examination October/November 2023 (UG Programmes)**		
Programme code: 01 **Programme: SYBCOM HONS.**	**Class:** SY	**Semester:** III
Name of the Constituent College: **S K Somaiya College**	**Name of the Department** Commerce	
Course Code: 131U01G101	**Name of the Course: Quantitative Methods – 1**	
Duration : 2 Hrs.	**Maximum Marks : 60**	
Instructions: 1) All Questions are compulsory 2) Figures to the right indicate full marks 3) Use of Calculator is allowed 4) Graph papers will be provided on request.		

<table>
<tr><th>Question No.</th><th></th><th>Max. Marks</th><th>Co Attainment</th></tr>
<tr><td>Q.1 a)</td><td>Prove that median lies between mean and mode from the following data.
<table>
<tr><td>Height in cms.</td><td>120-125</td><td>125-130</td><td>130-135</td><td>135-140</td><td>140-145</td><td>145-150</td></tr>
<tr><td>No. of students</td><td>7</td><td>10</td><td>18</td><td>25</td><td>13</td><td>7</td></tr>
</table></td><td>08</td><td>CO1,2,6</td></tr>
<tr><td>Q.1 b)</td><td>Find Q1 and Q3 for following data.
<table>
<tr><td>Marks</td><td>20-25</td><td>25-30</td><td>30-35</td><td>35-40</td><td>40-45</td><td>45-50</td><td>50-55</td></tr>
<tr><td>No. of students</td><td>2</td><td>5</td><td>8</td><td>12</td><td>10</td><td>7</td><td>6</td></tr>
</table></td><td>07</td><td>CO1,2,6</td></tr>
<tr><td></td><td>OR</td><td></td><td></td></tr>
<tr><td>Q.1 a)</td><td>Draw cumulative frequency less than curve and locate median graphically for following data.
<table>
<tr><td>Class interval</td><td>100-140</td><td>140-180</td><td>180-220</td><td>220-260</td><td>260-300</td><td>300-340</td><td>340-380</td></tr>
<tr><td>frequency</td><td>14</td><td>45</td><td>52</td><td>80</td><td>32</td><td>23</td><td>24</td></tr>
</table></td><td>08</td><td>CO1,2,6</td></tr>
<tr><td>Q.1 b)</td><td>Find D6 and P47 for following data.
<table>
<tr><td>class</td><td>10-30</td><td>30-50</td><td>50-70</td><td>70-90</td><td>90-110</td><td>110-130</td></tr>
<tr><td>frequency</td><td>4</td><td>10</td><td>14</td><td>12</td><td>8</td><td>6</td></tr>
</table></td><td>07</td><td>CO1,2,6</td></tr>
<tr><td>Q.2 a)</td><td>Find coefficient of variation,
<table>
<tr><td>Wt. in kgs.</td><td>60-70</td><td>70-80</td><td>80-90</td><td>90-100</td><td>100-110</td><td>110-120</td></tr>
<tr><td>No. of persons</td><td>11</td><td>15</td><td>19</td><td>25</td><td>20</td><td>10</td></tr>
</table></td><td>08</td><td>CO3,4,5,6</td></tr>
</table>

Q.2 b) Find coefficient of correlation. — 07 — CO3,4, 5,6

X	14	8	10	11	9	13	5
Y	14	9	11	13	11	12	4

OR

Q.2 a) If two regression lines are 4x-y-23=0 and 3x-2y+4=0 find mean values of x and y, also find coefficient of correlation. — 08 — CO3,4, 5,6

Q.2 b) Find Laspeyres, Paasches and fishers index numbers for following data, — 07 — CO3,4, 5,6

Commodity	Price- 1996	Price-2006	Quantity-1996	Quantity-2006
A	4	5	15	20
B	8	12	20	30
C	6	8	25	20
D	6	8	3	4
E	14	20	2	3

Q.3 a) A committee of 5 is to be formed from 8 boys and 7 girls. Find the probability that the committee consists of, — 08 — CO3,4, 5,6

1) 4 boys and 1 girl
2) No boys
3) At least 2 boys

Q.3 b) For the following pay off table, find optimal decision using criterion, — 07 — CO3,4, 5,6

1) Maximin
2) Laplace
3) Maximax
4) Minimax regret

	S1	S2	S3
A1	35	100	38
A2	58	95	105
A3	45	30	91

OR

Q.3 a) A bakery man has observed following demand pattern for cakes produced in his bakery. — 10 — CO3,4, 5,6

No. of cakes in demand	20	21	22	23
Probability	0.05	0.25	0.30	0.40

The cost of producing one cake is Rs.12 and the selling price is Rs. 20 per cake. Determine best decision using,

1) EMV criterion
2) EOL criterion

Also find EPPI and EVPI

Q.3 b) From a well shuffled pack of cards two cards are drawn one after the other with replacement find probability that, — 05 — CO3,4, 5,6

1) First card is diamond and the other is spade.
2) One of them is king and the other is queen.

Q.4 Answer the following: — 15 — CO 1,2,3,4, 5,6

1) If P(AUB)=5/6,P(A')=1/3, P(B)=1/2 find P(B') and P(A∩B)

2) Find three yearly moving averages for following data,

Year	1999	2000	2001	2002	2003	2004	2005	2006	2007
sales	12	15	20	18	25	32	30	40	44

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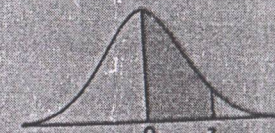
3) The following data refers to the number of telephone calls made at a fixed time on different days in a month. Prepare frequency distribution of number of calls.

5	6	7	8	9
7	8	10	9	10
5	9	6	7	8
9	8	8	9	5
6	8	6	7	5
8	9	7	6	8

TABLE A1 | Normal Area Table

This table gives area between mean and a specific value of z.



z	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
0.0	0.0000	0.0040	0.0080	0.0120	0.0160	0.0199	0.0239	0.0279	0.0319	0.0359
0.1	0.0398	0.0438	0.0478	0.0517	0.0557	0.0596	0.0636	0.0675	0.0714	0.0753
0.2	0.0793	0.0832	0.0871	0.0910	0.0948	0.0987	0.1026	0.1064	0.1103	0.1141
0.3	0.1179	0.1217	0.1255	0.1293	0.1331	0.1368	0.1406	0.1443	0.1480	0.1517
0.4	0.1554	0.1591	0.1628	0.1664	0.1700	0.1736	0.1772	0.1808	0.1844	0.1879
0.5	0.1915	0.1950	0.1985	0.2019	0.2054	0.2088	0.2123	0.2157	0.2190	0.2224
0.6	0.2257	0.2291	0.2324	0.2357	0.2389	0.2422	0.2454	0.2486	0.2517	0.2549
0.7	0.2580	0.2611	0.2642	0.2673	0.2704	0.2734	0.2764	0.2794	0.2823	0.2852
0.8	0.2881	0.2910	0.2939	0.2967	0.2995	0.3023	0.3051	0.3078	0.3106	0.3133
0.9	0.3159	0.3186	0.3212	0.3238	0.3264	0.3289	0.3315	0.3340	0.3365	0.3389
1.0	0.3413	0.3438	0.3461	0.3485	0.3508	0.3531	0.3554	0.3577	0.3599	0.3621
1.1	0.3643	0.3665	0.3686	0.3708	0.3729	0.3749	0.3770	0.3790	0.3810	0.3830
1.2	0.3849	0.3869	0.3888	0.3907	0.3925	0.3944	0.3962	0.3980	0.3997	0.4015
1.3	0.4032	0.4049	0.4066	0.4082	0.4099	0.4115	0.4131	0.4147	0.4162	0.4177
1.4	0.4192	0.4207	0.4222	0.4236	0.4251	0.4265	0.4279	0.4292	0.4306	0.4319
1.5	0.4332	0.4345	0.4357	0.4370	0.4382	0.4394	0.4406	0.4418	0.4429	0.4441
1.6	0.4452	0.4463	0.4474	0.4484	0.4495	0.4505	0.4515	0.4525	0.4535	0.4545
		0.4564	0.4573	0.4582	0.4591	0.4599	0.4608	0.4616	0.4625	0.4633

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z	0.00	0.01	0.02	0.03	0.04	[illegible]				
2.0	0.4772	0.4778	0.4783	0.4788	0.4793	0.4798	0.4803	0.4808	0.4812	0.4817
2.1	0.4821	0.4826	0.4830	0.4834	0.4838	0.4842	0.4846	0.4850	0.4854	0.4857
2.2	0.4861	0.4864	0.4868	0.4871	0.4875	0.4878	0.4881	0.4884	0.4887	0.4890
2.3	0.4893	0.4896	0.4898	0.4901	0.4904	0.4906	0.4909	0.4911	0.4913	0.4916
2.4	0.4918	0.4920	0.4922	0.4925	0.4927	0.4929	0.4931	0.4932	0.4934	0.4936
2.5	0.4938	0.4940	0.4941	0.4943	0.4945	0.4946	0.4948	0.4949	0.4951	0.4952
2.6	0.4953	0.4955	0.4956	0.4957	0.4959	0.4960	0.4961	0.4962	0.4963	0.4964
2.7	0.4965	0.4966	0.4967	0.4968	0.4969	0.4970	0.4971	0.4972	0.4973	0.4974
2.8	0.4974	0.4975	0.4976	0.4977	0.4977	0.4978	0.4979	0.4979	0.4980	0.4981
2.9	0.4981	0.4982	0.4982	0.4983	0.4984	0.4984	0.4985	0.4985	0.4986	0.4986
3.0	0.4987	0.4987	0.4987	0.4988	0.4988	0.4989	0.4989	0.4989	0.4990	0.4990
3.1	0.49903	0.49906	0.4991	0.49913	0.49916	0.49918	0.49921	0.49924	0.49926	0.49929
3.2	0.49931	0.49934	0.49936	0.49938	0.49940	0.49942	0.49944	0.49946	0.49948	0.49950
3.3	0.49952	0.49953	0.49955	0.49957	0.49958	0.49960	0.49961	0.49962	0.49964	0.49965
3.4	0.49966	0.49968	0.49969	0.49970	0.49971	0.49972	0.49973	0.49974	0.49975	0.49976
3.5	0.49977	0.49978	0.49978	0.49979	0.49980	0.49981	0.49981	0.49982	0.49983	0.49983
3.6	0.49984	0.49985	0.49985	0.49986	0.49986	0.49987	0.49987	0.49988	0.49988	0.49989
3.7	0.49989	0.49990	0.49990	0.49990	0.49991	0.49991	0.49992	0.49992	0.49992	0.49992
3.8	0.49993	0.49993	0.49993	0.49994	0.49994	0.49994	0.49994	0.49995	0.49995	0.49995
3.9	0.49995	0.49995	0.49996	0.49996	0.49996	0.49996	0.49996	0.49996	0.49997	0.49997

SOMAIYA
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Semester (July 2023 to October 2023) Examination: End Semester Examination October/November 2023 (UG Programmes)		
Programme code: 01 **Programme: SYBCOM HONS.**	**Class:** SY	**Semester:** III
Name of the Constituent College: **S K Somaiya College**	**Name of the Department** Commerce	
Course Code: 131U01G101	**Name of the Course: Quantitative Methods – 1**	
Duration : 2 Hrs.	**Maximum Marks : 60**	
Instructions: 1) All Questions are compulsory 2) Figures to the right indicate full marks 3) Use of Calculator is allowed 4) Graph papers will be provided on request.		

<table>
<tr><th>Question No.</th><th></th><th>Max. Marks</th><th>Co Attainment</th></tr>
<tr><td>Q.1 a)</td><td>Find all three quartiles for following data,
<table>
<tr><td>Marks</td><td>0-10</td><td>10-20</td><td>20-30</td><td>30-40</td><td>40-50</td></tr>
<tr><td>No. of students</td><td>2</td><td>10</td><td>15</td><td>23</td><td>10</td></tr>
</table></td><td>10</td><td>CO1,2, 6</td></tr>
<tr><td>Q.1 b)</td><td>Draw histogram and locate mode graphically,
<table>
<tr><td>CI</td><td>10-20</td><td>20-30</td><td>30-40</td><td>40-50</td><td>50-60</td></tr>
<tr><td>F</td><td>12</td><td>34</td><td>32</td><td>23</td><td>21</td></tr>
</table></td><td>05</td><td>CO1,2, 6</td></tr>
<tr><td></td><td>OR</td><td></td><td></td></tr>
<tr><td>Q.1 a)</td><td>Find Median and Mode,
<table>
<tr><td>CI</td><td>5-15</td><td>15-25</td><td>25-35</td><td>35-45</td><td>45-55</td><td>55-65</td><td>65-75</td></tr>
<tr><td>F</td><td>12</td><td>10</td><td>14</td><td>16</td><td>18</td><td>21</td><td>12</td></tr>
</table></td><td>10</td><td>CO1,2, 6</td></tr>
<tr><td>Q.1 b)</td><td>The following data gives the age of newly married couples. X represents age of husbands in years and Y represents age of wife in years. Represent the data by a bivariate frequency distribution. Take the class intervals for X as 24-26,27-29 so on… and for Y as 18-20,21-23 so on…
<table>
<tr><td>X</td><td>24</td><td>26</td><td>27</td><td>25</td><td>28</td><td>27</td><td>25</td><td>26</td><td>28</td></tr>
<tr><td>Y</td><td>22</td><td>21</td><td>23</td><td>20</td><td>24</td><td>23</td><td>18</td><td>19</td><td>23</td></tr>
<tr><td>X</td><td>30</td><td>25</td><td>27</td><td>28</td><td>29</td><td>30</td><td>31</td><td>32</td><td>30</td></tr>
<tr><td>Y</td><td>25</td><td>19</td><td>22</td><td>24</td><td>24</td><td>25</td><td>25</td><td>26</td><td>25</td></tr>
<tr><td>X</td><td>25</td><td>26</td><td>30</td><td>31</td><td>24</td><td>26</td><td>24</td><td>27</td><td>28</td></tr>
<tr><td>Y</td><td>21</td><td>22</td><td>26</td><td>25</td><td>23</td><td>22</td><td>23</td><td>24</td><td>27</td></tr>
</table></td><td>05</td><td>CO1,2, 6</td></tr>
<tr><td>Q.2 a)</td><td>Find standard deviation,
<table>
<tr><td>Wages in Rs.</td><td>30-40</td><td>40-50</td><td>50-60</td><td>60-70</td><td>70-80</td><td>80-90</td></tr>
<tr><td>No. of persons</td><td>10</td><td>20</td><td>40</td><td>16</td><td>8</td><td>6</td></tr>
</table></td><td>08</td><td>CO3,4, 5,6</td></tr>
<tr><td>Q.2 b)</td><td>Find y when x=13 for following data.
<table>
<tr><td>X</td><td>11</td><td>7</td><td>9</td><td>5</td><td>8</td><td>6</td><td>10</td></tr>
<tr><td>Y</td><td>16</td><td>14</td><td>12</td><td>11</td><td>15</td><td>14</td><td>17</td></tr>
</table></td><td>07</td><td>CO3,4, 5,6</td></tr>
</table>

OR

Q.2 a) Fit a straight-line trend using Least square method and plot data graphically. — 08 — CO3,4, 5,6

Year	1999	2000	2001	2002	2003	2004	2005
Production	14	15	17	16	17	20	23

Q.2 b) Calculate rank coefficient of correlation for following data and interpret your answer. — 07 — CO3,4, 5,6

X	105	112	107	115	160	152	148	132
Y	120	127	135	123	140	142	138	110

Q.3 a) A variable x is normally distributed with mean=120 and standard deviation=10 Find, — 10 — CO3,4, 5,6

1) P(x<135)
2) P(x>125)
3) P(110<x<135)

Q.3 b) Draw decision tree and determine best decision for the following pay-off table. — 05 — CO3,4, 5,6

	S1	S2	S3
A1	25000	35000	40000
A2	50000	20000	10000
Probability	0.3	0.5	0.2

OR

Q.3 a) For following pay-off table determine best decision using, — 10 — CO3,4, 5,6

1) Maximin
2) Maximax
3) Laplace
4) Hurwicz(alpha=0.75)
5) Minimax regret

	S1	S2	S3	S4
A1	100	300	150	400
A2	0	50	30	-10
A3	120	160	200	140
A4	-100	0	500	300
probability	0.3	0.2	0.4	0.1

Q.3 b) Find E(X) and V(X) for following data. — 05 — CO3,4, 5,6

X	-2	-1	0	1	2	3
P(X)	0.1	0.2	0.2	0.3	0.15	0.05

Q.4 Answer the following: — 15 — CO 1,2,3,4, 5,6

1) Find cost of living index number

commodity	weights	Index no.
A	45	300
B	15	200
C	10	250
D	12	150
E	18	200

2) Find Mean for 23,34,45,56,54,43,23,24

	3) Find Range and coefficient of Range for 34,56,54,67,55 4) Illustrate merits of Mean. 5) Explain various components of time series.	

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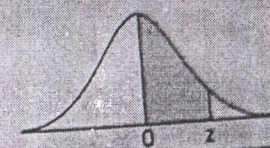
TABLE A1 | Normal Area Table



This table gives area between mean and a specific value of z.

z	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
0.0	0.0000	0.0040	0.0080	0.0120	0.0160	0.0199	0.0239	0.0279	0.0319	0.0359
0.1	0.0398	0.0438	0.0478	0.0517	0.0557	0.0596	0.0636	0.0675	0.0714	0.0753
0.2	0.0793	0.0832	0.0871	0.0910	0.0948	0.0987	0.1026	0.1064	0.1103	0.1141
0.3	0.1179	0.1217	0.1255	0.1293	0.1331	0.1368	0.1406	0.1443	0.1480	0.1517
0.4	0.1554	0.1591	0.1628	0.1664	0.1700	0.1736	0.1772	0.1808	0.1844	0.1879
0.5	0.1915	0.1950	0.1985	0.2019	0.2054	0.2088	0.2123	0.2157	0.2190	0.2224
0.6	0.2257	0.2291	0.2324	0.2357	0.2389	0.2422	0.2454	0.2486	0.2517	0.2549
0.7	0.2580	0.2611	0.2642	0.2673	0.2704	0.2734	0.2764	0.2794	0.2823	0.2852
0.8	0.2881	0.2910	0.2939	0.2967	0.2995	0.3023	0.3051	0.3078	0.3106	0.3133
0.9	0.3159	0.3186	0.3212	0.3238	0.3264	0.3289	0.3315	0.3340	0.3365	0.3389
1.0	0.3413	0.3438	0.3461	0.3485	0.3508	0.3531	0.3554	0.3577	0.3599	0.3621
1.1	0.3643	0.3665	0.3686	0.3708	0.3729	0.3749	0.3770	0.3790	0.3810	0.3830
1.2	0.3849	0.3869	0.3888	0.3907	0.3925	0.3944	0.3962	0.3980	0.3997	0.4015
1.3	0.4032	0.4049	0.4066	0.4082	0.4099	0.4115	0.4131	0.4147	0.4162	0.4177
1.4	0.4192	0.4207	0.4222	0.4236	0.4251	0.4265	0.4279	0.4292	0.4306	0.4319
1.5	0.4332	0.4345	0.4357	0.4370	0.4382	0.4394	0.4406	0.4418	0.4429	0.4441
1.6	0.4452	0.4463	0.4474	0.4484	0.4495	0.4505	0.4515	0.4525	0.4535	0.4545
1.7	0.4554	0.4564	0.4573	0.4582	0.4591	0.4599	0.4608	0.4616	0.4625	0.4633
		0.4649	0.4656	0.4664	0.4671	0.4678	0.4686	0.4693	0.4699	0.4706
									0.4761	0.4767

z										
2.0	0.4772	0.4778	0.4[illegible]3	0.4788	0.4793	0.4798	0.4803	0.4808	0.4812	0.4817
2.1	0.4821	0.4826	0.4830	0.4834	0.4838	0.4842	0.4846	0.4850	0.4854	0.4857
2.2	0.4861	0.4864	0.4868	0.4871	0.4875	0.4878	0.4881	0.4884	0.4887	0.4890
2.3	0.4893	0.4896	0.4898	0.4901	0.4904	0.4906	0.4909	0.4911	0.4913	0.4916
2.4	0.4918	0.4920	0.4922	0.4925	0.4927	0.4929	0.4931	0.4932	0.4934	0.4936
2.5	0.4938	0.4940	0.4941	0.4943	0.4945	0.4946	0.4948	0.4949	0.4951	0.4952
2.6	0.4953	0.4955	0.4956	0.4957	0.4959	0.4960	0.4961	0.4962	0.4963	0.4964
2.7	0.4965	0.4966	0.4967	0.4968	0.4969	0.4970	0.4971	0.4972	0.4973	0.4974
2.8	0.4974	0.4975	0.4976	0.4977	0.4977	0.4978	0.4979	0.4979	0.4980	0.4981
2.9	0.4981	0.4982	0.4982	0.4983	0.4984	0.4984	0.4985	0.4985	0.4986	0.4986
3.0	0.4987	0.4987	0.4987	0.4988	0.4988	0.4989	0.4989	0.4989	0.4990	0.4990
3.1	0.49903	0.49906	0.4991	0.49913	0.49916	0.49918	0.49921	0.49924	0.49926	0.49929
3.2	0.49931	0.49934	0.49936	0.49938	0.49940	0.49942	0.49944	0.49946	0.49948	0.49950
3.3	0.49952	0.49953	0.49955	0.49957	0.49958	0.49960	0.49961	0.49962	0.49964	0.49965
3.4	0.49966	0.49968	0.49969	0.49970	0.49971	0.49972	0.49973	0.49974	0.49975	0.49976
3.5	0.49977	0.49978	0.49978	0.49979	0.49980	0.49981	0.49981	0.49982	0.49983	0.49983
3.6	0.49984	0.49985	0.49985	0.49986	0.49986	0.49987	0.49987	0.49988	0.49988	0.49989
3.7	0.49989	0.49990	0.49990	0.49990	0.49991	0.49991	0.49992	0.49992	0.49992	0.49992
3.8	0.49993	0.49993	0.49993	0.49994	0.49994	0.49994	0.49994	0.49995	0.49995	0.49995
3.9	0.49995	0.49995	0.49996	0.49996	0.49996	0.49996	0.49996	0.49996	0.49997	0.49997

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