OP JINDAL UNIVERSITY, RAIGARH (C.G.)

END SEMESTER EXAMINATION, JANUARY 2023

School Of Management

Program Name: **BBA** Semester: Ist Program Code: **02UG010**

Course Code: **BBA-23-106**

Course Name: **Fundamentals of Computer** Time: **2 Hrs** Max. Marks: **50**

Answer any one question from each section

All questions carry equal marks

		Section A (Unit-I) (10 marks)	M	CO	KL
1	a.	Discuss the evolution of computers from the first generation to the current generation, highlighting major advancements in each generation.	5	1	2
	b.	Covert Decimal 74.635 into Equivalent Binary Number.	5	1	3
		OR			
2	a.	Explain Unicode, ASCII & Gray Code with Examples.	5	1	3
	b.	Explain the major input/output devices with features.	5	1	2
		Section B (Unit-II) (10 marks)			
3	a.	Explain System Software with Their features.	5	2	2
	b.	What is Operating System? Explain Function of Operating System.	5	2	2
		OR			
4	a.	Discuss the Type of Operating System.	5	2	2
	b.	What are the programming Languages Explain with their Advantages & Disadvantages.	5	2	2
		Section C (Unit-III) (10 marks)			
5	a.	Explain Mail-Merge in Detail Steps.	5	3	2
	b.	Explain V-lookup & H-lookup Function.	5	3	3
		OR			
6	a.	Explain Cross Reference with Detail Steps.	5	3	3
	b.	Write 10 Short keys of MS – Word with their functionality.	5	3	2
		Section D (Case Study)-1(10 marks)			
7		Machine Learning Case Study on Dell & Sky.	10	4	2
		OR			
8		Machine Learning Case Study on Trendyol & Dell.	10	4	2
		Section E (Case Study)-2(10 marks)			
9		Machine Learning Case Study on Yelp & ransomware CryptoLocker	10	5	2
		OR			
10		Machine Learning Case Study on Harley Davidson & MyDoom Virus.	10	5	2

OP JINDAL UNIVERSITY, RAIGARH
END SEMESTER EXAMINATION(Backlog), JANUARY-2024
BBA 1st Semester
School of Management [02UG010]
Human Values and Professional Ethics

Time: 2 Hrs.				Max. Marks: 50		

Note: Answer any one question from each unit

All questions carry equal marks

			M	CO	KL
		Unit-I (10 marks)			
1	a.	How Self-exploration works as a means of Value Education in society?	5	1	3
	b.	*"Our present crisis is in fact the crisis of character",* Explain the statement by some real-time connections.	5	1	3
		OR			
2	a.	Explain the meaning of Value-based Education.	5	1	2
	b.	Define Values as per Indian Philosophy.	5	1	2
		Unit-II (10 marks)			
3	a.	"Family as a basic unit of Human Interaction and Values in Relationships". Justify the statement with a suitable explanation and example.	5	2	3
	b.	Why knowledge of self is necessary? Define the Co-existence of the Self and the Body.	5	2	2
		OR			
4	a.	Define the role of value system in family harmony.	5	2	2
	b.	Discuss various dimensions of human endeavor in value system.	5	2	3
		Unit-III (10 marks)			
5	a.	Define Basic human rights for individuals in India.	5	3	1
	b.	"Social Disparities are the main cause of dissatisfaction in society". Give your view point for the statement.	5	3	3
		OR			
6	a.	Elucidate the concept of Ethical Human Conduct.	5	3	1
	b.	Elaborate the meaning of Universal Human Order in detail.	5	3	1
		Case Study (10 marks)			
7		Differentiate between Krishna paksha & Shukla Paksha in detail. What are the importance of these concept in Indian tradition?	10	2	3
		OR			
8		Discuss the significance of Professional Ethics and Right Understanding from management side to achieve the core objective of the organization.	10	3	2
		Case study (10 marks)			
9		Critically examine the issues in professional ethics in the current scenario. List any five unethical practices in profession today and the methods being tried to curb them.	10	3	3
		OR			
10		Briefly explain the following orders in nature- a. Material order b. Pranic order c. Animal order d. Human order	10	2	1

OP JINDAL UNIVERSITY, RAIGARH
END SEMESTER EXAMINATION, JANUARY-2024
BBA-I Sem.
School of Management
Business Communication [BBA-23-104]

OPJU

Time: 2 Hrs.			Max. Marks: 50		

Note:

Answer any one question from each unit
All questions carry equal marks

			M	CO	KL
		Unit-I (10 marks)			
1	a.	What are the 'Principles of Effective Business Communication'? Mention with reference to 7Cs.	5	1	1
	b.	What is 'Listening'? Describe its process. Describe the 'Types of Listening'.	5	1	1
		OR			
2	a.	What are the various types of 'Communication Barriers'? Describe each type.	5	1	1
	b.	Describe all the types of Verbal Communication in detail.	5	1	1
		Unit-II (10 marks)			
3	a.	What are the characteristics of 'Effective Presentation'?	5	2	2
	b.	How can audio-visual aids help to improve the effectiveness of PPT presentation?	5	2	2
		OR			
4	a.	Write a note on 'Controlling nervousness and stage fright'.	5	2	2
	b.	What is 'Group discussion'? What are the guidelines to be followed to participate in a GD successfully?	5	2	2
		Unit-III (10 marks)			
5	a.	What are the differences between CV and Resume? Explain.	5	3	1
	b.	What is 'You' attitude? What is the impact of 'You' attitude in business communication?	5	3	3
		OR			
6	a.	What are the prerequisites to prepare an effective CV/Resume?	5	3	1
	b.	How could you make the language of a business letter persuasive?	5	3	2
		Unit-IV (10 marks)			
7	a.	What are the components of a standard CV/Resume? How does it work?	5	3	2
	b.	*Write a business letter on the following topic:* For about a year you have not received any order from an old customer who used to place orders with you at regular intervals of three months. Draft a letter to him expressing your concern and make an attempt to regain his confidence. Invent the details.	5	3	2
		OR			
8	a.	What are the purposes of using 'Biodata'? How does it differ from	5	3	2

		CV/Resume?			
	b.	***Write a business letter on the following topic:*** Imagine that you are the Chairman of a company and wish to arrange a golden jubilee dinner for your offi cers. Write to the manager of a 5-star hotel, giving him the date, time, number of guests and menu and inquiring about the charges.	5	3	2

UNIT-V (10 marks)

9	a.	***Write a business letter on the following topic:*** Write a letter as Publishing Manager of P.L. Ratham Private Limited, 579, Phule Lane, Dadar, Mumbai-600014 to an author accepting his manuscript but expressing your inability to bring out the book within six months as desired by him.	5	3	2
	b.	Write a short note on 'Proxemics'.	5	1	2

OR

10	a.	***Write a business letter on the following topic:*** The library of a university has placed an order for 200 copies of a book but you have only 150 copies in stock. As Sales Manager of this publishing fi rm, draft a suitable reply to the Librarian, saying when if at all, you would be able to accept the order for the remaining 50 copies also.	5	3	2
	b.	Write a short note on 'Paralanguage'.	5	1	2

OP JINDAL UNIVERSITY, RAIGARH
END SEMESTER EXAMINATION, JANUARY-2024
BBA 1st Semester
School of Management [02UG010]
INDIAN KNOWLEDGE SYSTEM

OPJU
University of Steel Technology and Management

Time: 3 Hrs.   **Max. Marks: 100**

Note: Answer any one question from each unit

All questions carry equal marks

			M	CO	KL
Unit-I (20 marks)				
1	a.	Elaborate the significance of Knowledge System for development of country. देश के विकास के लिए ज्ञान प्रणाली के महत्व को स्पष्ट कीजिए।	10	1	3
	b.	Elucidate various components of Knowledge triangle in detail with appropriate examples. उचित उदाहरणों के साथ ज्ञान त्रिकोण के विभिन्न घटकों को विस्तार से स्पष्ट करें।	10	1	2
		OR			
2	a.	Explain the managerial significance of Ashram Vyavastha (for human life and stages) in the Ancient Indian Knowledge System. प्राचीन भारतीय ज्ञान प्रणाली में आश्रम व्यवस्था के प्रबंधकीय महत्त्व को स्पष्ट कीजिए।	10	1	2
	b.	Differentiate between Traditional and Modern Education system in India. भारत की परम्परागत एवं आधुनिक शिक्षा पद्धति में अन्तर स्पष्ट कीजिए।	10	1	2
		Unit-II (20 marks)			
3	a.	*Karmanye Vadhikaraste, Ma phaleshou kada chana,* *Ma Karma Phala Hetur Bhurmatey Sangostva Akarmani* Explain the above verse from the Gita and how it is significant in the management of business. कर्मण्येवाधिकारस्ते मा फलेषु कदाचन। मा कर्मफलहेतुर्भूर्मा ते संगोऽस्त्वकर्मणि ॥ गीता के उपरोक्त श्लोक की व्याख्या कीजिए कि व्यवसाय के प्रबन्धन में यह किस प्रकार महत्त्वपूर्ण है।	10	2	1
	b.	Interpret the concept of Bhakti Yoga. How it is beneficial for improving the spiritual and mental health of individuals. भक्ति योग की अवधारणा की व्याख्या कीजिए। यह व्यक्तियों के आध्यात्मिक और मानसिक स्वास्थ्य में सुधार के लिए कैसे फायदेमंद है।	10	2	3
		OR			
4	a.	Write Short Notes on any two- 1. Vishada Yoga and management of frustration 2. Karma Yogi 3. Gyaan Vigyana Yoga किन्हीं दो पर संक्षिप्त टिप्पणियाँ लिखिए- 1. विषाद योग और निराशा का प्रबंधन 2. कर्म योगी 3. ज्ञान विज्ञान योग	10	2	3
	b.	Elaborate the concept of four Purushartha in Indian Values System. Which one is considered as Highest and Lowest among them and Why? भारतीय मूल्य प्रणाली में चार पुरुषार्थ की अवधारणा को स्पष्ट कीजिए। उनमें से किसे उच्चतम और निम्नतम माना जाता है और क्यों?	10	2	2

Unit-III (20 marks)

5	a.	"Preparation, Team Spirit Commitment and Leadership are necessary to achieve the goal of an organization or Team", Elaborate the statement by taking the reference from Mahabharata. "तैयारी, टीम भावना किसी संगठन या टीम के लक्ष्य को प्राप्त करने के लिए प्रतिबद्धता और नेतृत्व आवश्यक है", महाभारत से संदर्भ लेते हुए कथन को विस्तृत कीजिए।	10	3	3
	b.	Briefly explain the management lessons from Ramayana. रामायण से प्रबंधन के पाठों को संक्षेप में समझाइए।	10	3	3
OR					
6	a.	Compare learning from Mahabharata and Ramayana on the basis of following points-1. Relationships, 2. Central women, 3. The great wars. महाभारत और रामायण के अधिगम की तुलना निम्नलिखित बिन्दुओं के आधार पर कीजिए-1 रिश्ते, 2. केंद्रीय महिलाएं, 3. महान युद्ध	20	3	3

Unit-IV (20 marks)

7	a.	Analyze the Importance of Indian Festivals for Making Life a Celebration. Justify your answer by taking reference from any festival. जीवन को उत्सव बनाने के लिए भारतीय त्योहारों के महत्व का विश्लेषण करें। किसी भी त्योहार से संदर्भ लेकर अपने उत्तर की पुष्टि कीजिए।	10	4	3
	b.	Explain the Importance of a Common worship place for the economic and societal well-being of any civilization. किसी भी सभ्यता के आर्थिक और सामाजिक कल्याण के लिए एक सामान्य पूजा स्थल के महत्व को समझाएं।	10	4	3
OR					
8	a.	Elaborate the concept of Time Calculation (Kaalgadna) in Indian Astronomy. How many years are there in 1 Maha Yuga. Name 4 yugas of Mahayug with time duration. भारतीय खगोल विज्ञान में समय गणना (कालगणना) की अवधारणा को विस्तृत कीजिए। 1 महायुग में कितने वर्ष होते हैं? समय अवधि के साथ महायुग के 4 युगों का नाम दें।	10	4	3
	b.	Briefly explain the evolution of Coin System in India after independence. स्वतंत्रता के बाद भारत में सिक्का प्रणाली के विकास को संक्षेप में समझाइए।	10	4	2

Case study (20 marks)

9	Explain the concept of Framework for establishing valid knowledge. What are the different types of knowledge that civilization need to manage? वैध ज्ञान स्थापित करने के लिए फ्रेमवर्क की अवधारणा की व्याख्या करें। विभिन्न प्रकार के ज्ञान क्या हैं जिन्हें सभ्यता को प्रबंधित करने की आवश्यकता है।	20	1	3
OR				
10	As per Indian tradition, name of child given by parents holds significance in his /her life". Explain with the help of at least 3 Example, one should be your own name. भारतीय परंपरा के अनुसार, माता-पिता द्वारा दिए गए बच्चे का नाम उसके जीवन में महत्व रखता है। कम से कम 3 उदाहरणों की सहायता से समझाइए, एक आपका अपना नाम होना चाहिए।	20	2	3

					Course Code: **BBA-105**

O P JINDAL UNIVERSITY	
END SEMESTER EXAMINATION, DECEMBER-2023	OPJU
BBA-I Semester [Programme Code-02UG010]	
Subject-Business Communication	
SCHOOL OF MANAGEMENT	

Time: 3 Hrs.	Max. Marks: 100

Answer any one question from each unit

All questions carry equal marks

			M	CO	KL
Unit-I (20 Marks)				
1	a.	What do you mean by Effective Listening? Discuss the types of Listening?	10	CO1	K1
	b.	What are the barriers to communication. Discuss with examples.	10	CO1	K2
OR				
2	a.	What do you mean by Grapevine? Discuss the seven principles of Effective Communication?	10	CO1	K2
	b.	Why do you mean by Communication in an organisation? Discuss the merits and demerits of Vertical Communication in an organisation.	10	CO1	K2
Unit-II (20 Marks)				
3	a.	Invite a quotation on behalf of Mahatma Gandhi Education Trust, Raigarh (CG) from M/s Chawala Enterprises, Industrial Estate, Raipur, Chhattisgarh for the following items: Office Chairs-100, Steel Almirahs-30, Wooden Tables-60, File Racks-100. (Invent the necessary details regarding their size, shape, colour etc.)	10	CO2	K3
	b.	What do you mean by 'Adaptation' in Writing? Discuss in brief the complete structure of a business letter.	10	CO2	K2
OR				
4	a.	As the Head-Librarian of your organization write a letter claiming compensation for 75 books which arrived in library in a damaged condition. (Invent necessary details)	10	CO2	K3
	b.	What do you mean by Technical Report Writing? Discuss the Front Matter of a report.	10	CO2	K2
Unit-III (20 Marks)				
5	a.	How to plan a Good Presentation? Describe the Characteristics of a Good Presentation.	10	CO3	K2
	b.	What do you mean by 'Minutes of Meeting'? Describe the Role of Secretary	10	CO3	K2

		OR			
10	a.	SS Communications Ltd.- An Indian company, Raipur (CG) requires Junior Managers. Candidates with good BBA degree can apply to the Head-HR of the above company. Send your resume´ along with the cover letter in indented style. (Invent necessary details) Advertisement Publication: The Hindu, 3rd Jan 2024. Eligibility Conditions: - Academic Qualification: Minimum Graduate Degree in Management with good academic record. - Skills Required: Microsoft MS, Power Point and Excel	20	CO5	K3

OP JINDAL UNIVERSITY, RAIGARH
BACKLOG END SEMESTER EXAMINATION, JANUARY-2024
BBA 1ST Semester [02UG010]

OPJU
UNIVERSITY OF STEEL TECHNOLOGY
AND MANAGEMENT

BUSINESS ECONOMICS

Time: 3 Hrs.					Max. Marks: 100		
Note:			Answer any one question from each unit				
			All questions carry equal marks				
					M	**CO**	**KL**

Unit-I (20 marks)

1	a.	Explain the Law of Equi-marginal utility. How does it explain the consumer's equilibrium?	10	1	2
	b.	What is the Indifference curve? What are the properties of the indifference curve? Also, discuss the marginal rate of substitution.	10	1	2

OR

2	a.	Explain the degree of price elasticity, Income elasticity and cross elasticity.	10	1	2
	b.	I. Radha open a new shoe shop, where her demand for shoe is given by the following demand function: **Q = 3600 – 3P.** Where Q represents quantity demanded and P represents price. If market price for **shoe is Rs 1000 per piece,** calculate the consumer's surplus (CS). Plot the CS in graph. II. You are given the following marginal utilities of goods X and Y obtained by a consumer. Given that price of X = Rs. 11, price of Y = Rs. 12 and income = Rs. 104, find out the optimal combination of goods.	10	2	4

No. of unit consumed	MU_X	MU_Y
1	66	84
2	55	72
3	44	60
4	33	48
5	22	36
6	11	24
7	1	12

Unit-II (20 marks)

3	a.	Under the short run production function, which law of production is given? Explain with the help of schedule and graph.	10	1	2
	b.	Explain law of return to scale. Also discuss the reasons behind the stages of production.	10	1	2

OR

| 4 | a. | Consider the following short-run production function (where L is the variable input and Q is the output).

 $Q = 72L^2 – 1.2L^3$

 (i) Determine the marginal product function (MPL).
 (ii) Determine the average product function (APL).
 (iii) Find the value of "L" at the point of inflexion.
 (iv) Find the value of "L" at which its average product takes on its maximum value.
 (v) Find the value of "L" that maximizes Q. | 10 | 2 | 2 |

	b.	I. The production function of a firm is given by: **Q = 0.8L + 2.2K,** which returns to the scale it belongs to, Derive. II. Determine and derive in which return-to-scale company is operating Suppose the production function of Britannia company is given: **Q = 12LK – 4L² – 2K².**	10	3	4

Unit-III (20 marks)

5	a.	Distinguish between economic cost and accounting cost. Also, explain social cost and opportunity cost.	10	3	2
	b.	A shoe producing company has the following variable cost function: **TVC = 560Q – 18Q² + 0.5Q³** If the company's fixed costs are equal to 270 lakhs, find out: (a) total cost function (b) average total cost function (c) at what output levels average variable cost and marginal cost will be minimum.	10	3	2

OR

6	a.	Discuss all the theories of short run cost function. Also highlight the relationship between AC, MC and AVC.	10	3	2
	b.	Suppose a firm faces a cost function of **C = 300 + 36Q + 12Q².** Find out all the seven costs.	10	3	4

Unit-IV (20 marks)

7	a.	Elaborate the degrees of price discriminations.	10	4	2
	b.	Explain the learner's index of monopoly power.	10	4	2

OR

8	a.	What do you understand with the equilibrium of a monopoly firm explain graphically? Also, discuss the monopoly profit through AR and MR curves.	10	4	2
	b.	Let us illustrate the monopoly equilibrium with a numerical example. Suppose for a monopolist, the following demand and total cost functions are given. Find out how much he will produce and what price he will charge and total profit, if **Q = 360 – 20 P (demand function)** **TC = 6Q + 0.05Q2 (cost function)**	10	4	3

UNIT-Common (20 marks)

9	a.	Priya spends all her monthly income of 5000 on food and clothing. The price of food is 250, and the price of clothing is 100, and her monthly consumption of food is 10 units, and that of clothing is 25. With this consumption of the two commodities, her marginal rate of substitution of food for clothing is $MRS = \frac{1C}{1F}$ Is she in equilibrium with this consumption? Which commodity will she substitute for the other to reach the equilibrium position? Illustrate diagrammatically with indifference curves.	10	5	3
	b.	What is the shutdown condition of a firm, explain with the help of graph.	10	2	4

OR

10	a.	Discuss all the methods to calculate price elasticity.	10	5	3
	b.	In the perfect competitive market firm is operating with the given cost condition, **TC = 400 + 150Q – 2.5Q².** If the price of the good prevailing in the market **is Rs 15,** find out firm's equilibrium along with total cost and total profit/loss.	10	3	4

OP JINDAL UNIVERSITY, RAIGARH
END SEMESTER EXAMINATION, JANUARY-2024
BBA 1st Semester [02PG010]

OPJU
University of Steel Technology and Management

Business Economics

| Time: 3 Hrs. | | | Max. Marks: 100 |

Note:

Answer any one question from each unit

All questions carry equal marks

			M	CO	KL

Unit-I (20 marks)

			M	CO	KL
1	a.	Discuss the degrees of Income elasticity and cross elasticity with the help of examples.	10	1	2
	b.	Elaborate the concept of Indifference curve with the help of graph. Also discuss the properties of it.	10	1	3

OR

			M	CO	KL
2	a.	There are two commodities X and Y on which a consumer spends his entire income in a day. He has utility function $U = X^{0.75}.Y^{0.25}$. Find out the optimal quantities of X and Y, if prices of X and Y are Rs. 2 and Rs. 3 respectively and his income equals Rs. 240.	10	1	3
	b.	For the following demand functions, determine price elasticity. i) Q = 200 – 4P and the given P = 20 ii) P = 120 – 0.05Q and the given Q = 1000	10	1	3

Unit-II (20 marks)

			M	CO	KL
3	a.	Given the production function (where L is the variable input and Q is the output). $$Q = 48L^2 – 0.8L^3$$ (i) Find the value of "L", where TP changes its shape. (iv) Find the value of "L", where stage 1 ends. (v) Find the value of "L", TP is the maximum.	10	2	3
	b.	I. The production function is given by: $Q = L^{0.6}.K^{0.2}$, which returns to the scale it belongs to, Derive. II. Determine and derive in which return-to-scale company is operating Suppose the production function of Britannia company is given: $Q = 2L^{0.5}.K^{0.5}$.	10	2	3

OR

			M	CO	KL
4	a.	Discuss long run production function in detail.	10	2	2
	b.	Elaborate law of variable proportion with the help of graph and schedule.	10	2	2

Unit-III (20 marks)

		L	Q	TVC	TFC	TC	AVC	AFC	AC	MC	M	CO	KL
5	a.	0	0	0	1000	1000					10	3	3
		1		80		1080			36	2.6667			
		2	70			1160	2.2857	14.286					
		3	120				2		10.333	1.6			
		4					1.7778		7.3333				
		5	230					4.3478					
		6					1.7778	3.7037	5.4815	2			
		7	300				1.8667		5.2				
		8					2	3.125	5.125	4			
		9	330				2.1818						
		10						2.9851	5.3731				

	b.	A cloth making company has the following variable cost function: $$TVC = 60Q - 3Q^2 + 0.5Q^3$$ If the company's fixed costs are equal to 70 lakhs, find out: (a) total cost function (b) average total cost function (c) at what output levels average variable cost and marginal cost will be minimum.	10	3	3
		OR			
6	a.	What do you mean by economic cost, differentiate with the accounting cost? Also discuss the concept of social cost, sunk cost and opportunity cost.	10	3	2
	b.	Discuss the relationship between AC, AVC and MC. Also explain the shape of AFC curve.	10	3	2

Unit-IV (20 marks)

7	a.	A firm operating in a purely competitive environment is faced with a market price of ` 250 per unit of the product. The firm's total short-run cost function is, $$TC = 6000 + 400Q - 20Q^2 + Q^3$$ (i)Should the firm produce at this price in the short-run? (ii) If the market price is ` 300 per unit, what will total profits (losses) be if the firm produces ten units of output? Should the firm produce at this price? (iii) If the market price is greater than ` 300, should the firm produce at this price?	10	4	4
	b.	Suppose the following demand and total cost functions are given for a monopolist. Find out how much he will produce and what price he will charge and total profit, if **Q = 200 – 10 P (demand function)** **TC = 4Q + 0.1Q2 (cost function)**	10	4	3
		OR			
8	a.	Describe the degrees of price discrimination, what are the fundamental conditions of price discrimination.	10	4	2
	b.	Elaborate the concept of dead weight loss. Why under perfect competition social welfare is maximum? justify.	10	4	2

UNIT- Common (20 marks)

9	a.	Derive Supply curve of the firm in perfect competition with the help of MR, MC and AVC.	10	4	3
	b.	What do you understand with zero economic profit? Why seller in long run perfect competition sustain in market with zero economic profit. Explain.	10	4	4
		OR			
10	a.	Explain the concept of monopoly power.	10	4	2
	b.	Explain the characteristics of all market structure.	10	4	2

Program Name: BBA **Program Code: 02UG010** **Time: 3 Hrs.**

Semester: 1st **Max. Marks: 100**

Course Code: BBA 103 **Course Name: Business Mathematics**

Answer any one question from each section

			M	CO	KL
		Section A (20 marks)			
1	a.	In a flight of 600 km, an aircraft was slowed down due to bad weather. Its average speed for the trip was reduced by 200 km/hr and the time of flight increased by 30 minutes. The duration of the flight is?	10	1	3
	b.	In an election between two candidates, one got 55% of the total valid votes, 20% of the votes were invalid. If the total number of votes was 7500, the number of valid votes that the other candidate got, was?	10	1	3
		OR			
2	a.	$A = \begin{bmatrix} 12 & 8 & 4 \\ 3 & 17 & 14 \\ 9 & 8 & 10 \end{bmatrix}, B = \begin{bmatrix} 5 & 19 & 3 \\ 6 & 15 & 9 \\ 7 & 8 & 16 \end{bmatrix}$ Each element of the Product matrix AB can be calculated as ?	10	1	3
	b.	Explain laws of set algebra and types of sets.	10	1	3
		Section B (20 marks)			
3	a.	Let set A = {1, 2, 3, 4, 5, 6, 7, 8}, and set B = {3, 5, 7, 9, 11, 13} Find, (i) A U B (ii) A ∩ B	10	2	1
	b.	Find the compound interest on Rs. 8000 at 15% per annum for 2 years 4 months, compounded annually.	10	2	1
		OR			
4	a.	The difference between S.I and C.I on an amount of Rs. 30000 for 2 years is Rs. 147. What is the rate of Interest?	10	2	3
	b.	What is the difference between the compound interests on Rs. 5000 for 1 ½ year at 4% per annum compounded yearly and half-yearly?	10	2	3
		Section C (20 marks)			
5	a.	A sum of money is to be distributed among A, B, C, D in the proportion of 5: 2: 4: 3. If C gets Rs. 1000 more than D, what is B's share?	10	4	4
	b.	Seats for Mathematics, Physics and Biology in a school are in the ratio 5: 7: 8. There is a proposal to increase these seats by 40%, 50% and 75% respectively. What will be the ratio of increased seats?	10	4	5
		OR			
6	a.	Solve ∫ 1/ (2 - 3x)4 dx.	10	1	3
	b.	Differentiate 20x4 + 9.	10	1	3

		Section D (20 marks)			
7	a.	If U = {a, b, c, d, e, f}, A = {a, b, c}, B = {c, d, e, f}, C = {c, d, e}, find (A ∩ B) ∪ (A ∩ C).	10	1	1
	b.	Find value of x, $x^2-45x+324=0$	10	1	3
		OR			
8	a.	What is the value of ∫ 8 x^3 dx?	10	2	3
	b.	Calculate the derivative of f(x)=3√x-√x	10	2	3
		Section E (20 marks)			
9	a.	If A = {3, 5, 7, 9, 11}, B = {7, 9, 11, 13}, C = {11, 13, 15}. Find A ∩ (B ∪ C).	10	3	3
	b.	In a college, 20 professors teach mathematics or physics. If 12 teach maths and 4 teach both physics and maths, how many teach physics?	10	3	3
		OR			
10	a.	If $2\begin{bmatrix} 3 & 4 \\ 5 & x \end{bmatrix} + \begin{bmatrix} 1 & y \\ 0 & 1 \end{bmatrix} = \begin{bmatrix} 7 & 0 \\ 10 & 5 \end{bmatrix}$, then find (x − y)	10	4	3
	b.	Calculate the inverse of the matrix $A = \begin{bmatrix} 2 & 4 & -6 \\ 7 & 3 & 5 \\ 1 & -2 & 4 \end{bmatrix}$	10	4	1

OP JINDAL UNIVERSITY, RAIGARH (C.G.)
END SEMESTER EXAMINATION, JANUARY 2024
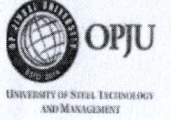
Program Name: **BBA**   **Program Code:02UG010**   Time:**3 Hrs**

Semester: **I**   Max. Marks: **100**

Course Code: **BBA-23-103**   Course Name: **Business Mathematics**

Answer any one question from each section

All questions carry equal marks

			M	CO	KL
		Section A (Unit-I) (20 marks)			
1	a.	Given that E = {2, 4, 6, 8, 10}. If n represents any member of E, then,write the following sets containing all numbers represented by (i) $n + 1$ (ii) n^2	10	CO1	K2
	b.	In a group of 50 students, the number of students studying French, English,Sanskrit were found to be as follows: French = 17, English = 13, Sanskrit = 15, French and English = 09, English and Sanskrit = 4, French and Sanskrit = 5, English, French and Sanskrit = 3. Find the number ofstudents who study (i) French only (v) French and Sanskrit but not English (ii) English only (vi) French and English but not Sanskrit (iii) Sanskrit only (vii) at least one of the three languages (iv) English and Sanskrit (viii) none of the three languagesbut not French	10	CO1	K3
		OR			
2	a.	Explain different types of questions with suitable example. Also discuss the method to make decision on types of roots about quadratic equation.	10	CO1	K2
	b.	Draw the Venn diagrams to illustrate the following relationship amongsets E, M and U, where E is the set of students studying English in a school, M is theset of students studying Mathematics in the same school, U is the set of all students inthat school. (i) All the students who study Mathematics study English, but some students who study English do not study Mathematics. (ii) There is no student who studies both Mathematics and English. (iii) Some of the student's study Mathematics but do not study English, some study Englishbut do not study Mathematics, and some study both. (iv) Not all students study Mathematics, but every studentsstudying English studies Mathematics.	10	CO1	K3
		Section B (Unit-II) (20 marks)			
3	a.	(i) Discuss duplicate ratio, Triplicate ratio, Sub duplicate and sub triplicate ratio with suitable example (ii) Two numbers are in the ratio of 5:6. If 21 is subtracted from each of two numbers they become in the ratio of 2:3. Find the number	5+5	CO2	K2
	b.	Two trains start at the same time from Pune and Delhi and proceed towards each other at 80 km/h and 95 km/h respectively. When they meet, it is found that one train has travelled 180 km more than the other. Find the distance between Delhi and Pune.	10	CO2	K3
		OR			

	a.	The population of the town is 13,800 which was increased by 15% then find the population of the men. If the ratio of the men and women were 2:1?	10	CO2	K2
4	b.	I. A train travelling at 60 km/h crosses another train travelling in the same direction at 50 km/h in 30 seconds. What is the combined length of both the trains? II. Train A, 600 mts long is running at 80 km/h will take how much time to cross a man sitting in another train which is 400 mts long, running at 64 km/h in the opposite direction?	5+5	CO2	K3

Section C (Unit-III) (20 marks)

5	a.	What is matrix? Explain its application in business world with suitable example	10	CO3	K2
	b.	What do you mean by singular matrix? Describe the elementary rows operations with examples?	10	CO3	K3

OR

6	a.	A salesman has the following record of sales during three months for three items A, B and C which have different rate of commission. Sales of units Month A B C Total Commission Jan 90 100 20 800 Feb 130 50 40 900 March 60 100 30 850 Find the rate of commission on items A,B and C.	10	CO3	K2
	b.	Using matrix inversion method, solve the following system of equations for X, Y, and Z. $X + Y + Z = 5$; $2X + Y - Z = 2$; $2X - Y + Z = 2$	10	CO3	K3

Section D (Unit-IV) (20 marks)

7	a.	What is differentiation and Partial differentiation? What is the meaning of homogeneous function.	10	CO4	K2
	b.	The total cost C(x) of a firm is: $C(x)= 0.0005X^3 - 0.7X^2 -30X + 3000$, where X is the output. Determine: (i) The Average Cost (AC) (ii) The Marginal Cost (MC) and value of MC when 5 units are produced (iii) The value of X for which MVC = AVC	10	CO4	K3

OR

8	a.	Find the local maxima and Local minima of the function $F(x) = 2X^3 - 15X^2 + 36X + 18$ also get the maximum and minimum value of the function.	10	CO4	K2
	b.	Use the method of Lagrange multipliers to find the minimum value of $f(x,y) = 5X^2 + 6Y^2 - XY$ subject to the constraint $g(x,y) = X + 2Y - 24 = 0$	10	CO4	K3

Section E (Unit-V) (20 marks)

9	a.	If the supply function for a particular commodity is $100P= (x+20)^2$ and the market price is 25, Find the Producer surplus. Can we calculate the Consumer Surplus also? Justify your answer.	10	CO5	K2
	b.	Integrate the following Function: $F(x)= (2x+7)/(X^2 +7x-8)^5$ $f(x)= (6X^2 + 4X+2)/ (X^3 + X^2 + X+ 1)^3$	10	CO5	K3

OR

10	a.	List out the methods of Calculating Integration by substitution.	10	CO5	K2
	b.	What is Consumer and Producer Surplus? explain the method of calculating it.	10	CO5	K3

		Course Code: BBA-23-101			

O P JINDAL UNIVERSITY
END SEMESTER EXAMINATION, DECEMBER-2023
OPJU
University of Steel Technology and Management

BBA I Semester
School of Management (02UG010)
Principle of Management

Time: 3 Hrs.   Max. Marks: 100

Answer any one question from each unit
All questions carry equal marks

			M	CO	KL
		Unit-I (20 marks)			
1	a.	What do you mean by management? In addition, explain 8 characteristics of management.	10	CO2	KL2
	b.	Distinguish in detail between effectiveness and efficiency. Write short notes on the level of management.	10	CO4	KL4
		OR			
2	a.	Describe five functions of management. And explain the nature of management in detail.	10	CO3	KL4
	b.	What is coordination? Write its three - features and importance.	10	CO2	KL3
		Unit-II			
3	a.	What is **the** organization? Write its advantages and disadvantages.	10	CO1	KL1
	b.	Explain what is line and staff organization. What are its merits and demerits explain?	10	CO2	KL2
		OR			
4	a.	Distinguish in detail between centralization and decentralization.	10	CO2	KL2
	b.	What is the chain of command? Write its advantage and disadvantages.	10	CO3	KL3
		Unit-III			
5	a.	What is planning? Explain in detail the step involve in the planning process.	10	CO3	KL2
	b.	~~What are the components of decision-making? What do you mean by management by objectives?~~ *What is organizational Structure Explain its Significance.*	10	CO2	KL3
		OR			
6	a.	What are the components of decision-making? What do you mean by management by objectives?	20	CO2	KL3
	b.	~~What is organizational structure? Explain its significance.~~	~~10~~	~~CO5~~	~~KL4~~
		Unit-IV			
7	a.	What is the process of controlling? And write short notes on controlling.	10	CO1	KL3
	b.	Explain in detail the techniques of coordination to change management.	10	CO4	KL4
		OR *Explain any motivation theory in detail.*			
8	a.	~~Explain in detail the techniques of coordination to change management.~~	10	CO4	KL4
	b.	What is coordination? Explain the principles of coordination in detail.	10	CO2	KL2
		UNIT-V			
9	a.	~~What is the chain of command? Write its advantage and disadvantages.~~	~~10~~	CO3	KL3
	b.	"Some organizational issues are more common than others, but they can all be challenging to overcome. There are ways to solve these issues with dedication and commitment to making positive outcomes." Justify the statement by explaining at least 5 issues along with potential causes and solutions in organizing.	20	CO5	KL4
		OR			
10	a.	"Planning, organizing, staffing, and leading must be monitored to maintain their effectiveness and efficiency." Accordingly to the statement explains in detail how controlling and helping others function in management.	10	CO4	KL3
	b.	"Coordination is the process whereby an executive develops an orderly pattern of group efforts among his subordinates and secures the unity of actions in the pursuit of a common purpose." Explain coordination and its principles to justify the following statement.	10	CO5	KL4

O P JINDAL UNIVERSITY
END SEMESTER EXAMINATION, DECEMBER-2023
BBA I Semester
School of Management (02UG010)
Principle of Management

OPJU
University of Steel Technology and Management

Time: 3 Hrs.			Max. Marks: 100		
		Answer any one question from each unit			
		All questions carry equal marks			
			M	**CO**	**KL**
		Unit-I (20 marks)			
1	a.	What do you mean by management? In addition, explain 8 characteristics of management.	10	CO2	KL2
	b.	Distinguish in detail between effectiveness and efficiency. Write short notes on the level of management.	10	CO4	KL4
		OR			
2	a.	Describe five functions of management. And explain the nature of management in detail.	10	CO3	KL4
	b.	What is coordination? Write its three - features and importance.	10	CO2	KL3
		Unit-II			
3	a.	What is **the** organization? Write its advantages and disadvantages.	10	CO1	KL1
	b.	Explain what is line and staff organization. What are its merits and demerits explain?	10	CO2	KL2
		OR			
4	a.	Distinguish in detail between centralization and decentralization.	10	CO2	KL2
	b.	What is the chain of command? Write its advantage and disadvantages.	10	CO3	KL3
		Unit-III			
5	a.	What is planning? Explain in detail the step involve in the planning process.	10	CO3	KL2
	b.	What are the components of decision-making? What do you mean by management by objectives?	10	CO2	KL3
		OR			
6	a.	What are the components of decision-making? What do you mean by management by objectives?	10	CO2	KL3
	b.	What is organizational structure? Explain its significance.	10	CO5	KL4
		Unit-IV			
7	a.	What is the process of controlling? And write short notes on controlling.	10	CO1	KL3
	b.	Explain in detail the techniques of coordination to change management.	10	CO4	KL4
		OR			
8	a.	Explain in detail the techniques of coordination to change management.	10	CO4	KL4
	b.	What is coordination? Explain the principles of coordination in detail.	10	CO2	KL2
		UNIT-V			
9	a.	What is the chain of command? Write its advantage and disadvantages.	10	CO3	KL3
	b.	"Some organizational issues are more common than others, but they can all be challenging to overcome. There are ways to solve these issues with dedication and commitment to making positive outcomes." Justify the statement by explaining at least 5 issues along with potential causes and solutions in organizing.	10	CO5	KL4
		OR			
10	a.	"Planning, organizing, staffing, and leading must be monitored to maintain their effectiveness and efficiency." Accordingly to the statement explains in detail how controlling and helping others function in management.	10	CO4	KL3
	b.	"Coordination is the process whereby an executive develops an orderly pattern of group efforts among his subordinates and secures the unity of actions in the pursuit of a common purpose." Explain coordination and its principles to justify the following statement.	10	CO5	KL4

O P JINDAL UNIVERSITY
BBA I Semester Backlog Examinations January-2024
Principles of Management
(Offered to BBA)

Time: 3 Hrs.   Max. Marks: 100

Answer any one question from each unit
All questions carry equal marks

			M	CO	KL
Unit-I					
1	a.	"Management is neither a science nor art completely" justify this statement	10	CO1	K2
	b.	How Management is different from administration?	10	CO2	K3
OR					
2	a.	What are the classical approaches of management?	10	CO1	K2
	b.	Explain the different role a manger perform in an organization	10	CO2	K3
Unit-II					
3	a.	Discuss the steps of planning process?	10	CO2	K2
	b.	Explain various types of plans with suitable example	10	CO3	K3
OR					
4	a.	Explain the decision making process in details	10	CO3	K2
	b.	Planning gives the roadmap of future business activities". Discuss.	10	CO2	K3
Unit-III					
5	a.	What is an organizational structure? Discuss any two structures in detail.	10	CO2	K2
	b.	Explain the various steps of staffing for any new employee in the organization.	10	CO4	K3
OR					
6	a.	How staffing is helpful in the organization structure?	10	CO1	K2
	b.	If an organization does not have proper structure then what will happened?	10	CO4	K3
Unit-IV					
7	a.	Explain various types of Coordination with suitable example.	10	CO1	K2
	b.	What are the different ways of Controlling in the organization	10	CO4	K3
OR					
8	a.	What is directing? How it is important in organization.	10	CO2	K2
	b.	Planning and control are after thought of as a system; control is also often referred to as a system. What is meant by this?	10	CO4	K3
UNIT-V					
9	a.	Kartik joins a garment factory as a plant supervisor in Lucknow. He observes that the output of some workers is very low as compared to the standards set for their performance. On analyzing the reasons for the same, he finds out that a lot of time of the workers is wasted in getting the requisite materials issued from the store. Whereas on asking, the store keeper complaints that there is no harmony in the working of the production department as a whole. Every day	10	CO3	K2

		the workers approach him at the last minute to procure different kinds of threads, laces, mirrors, buttons etc. If it is not available in the store then he has to place an order with the purchase officer. As a result, a lot of time of the workers is wasted. So, inorder to integrate the various production activities, henceforth, Kartik ensures that the store keeper is informed well three days in advance about the requisite material. Consequently, the store keeper is able to keep the materials ready for the workers every morning in accordance with their requirements. In context of the above case: Identify and explain the quality of management that Kartik has introduced in the working of the production department as a corrective measure to control the output of the workers.			
	b.	State briefly any two points highlighting the importance of quality of management identified in part (a)	10	CO4	K3
		OR			
10	a.	Raj veer works as a plant superintendent in a carpet making factory. In order to complete the export orders on time, the production manager asks him to make the workers work over time whereas the finance manager is strictly against this practice because it will increase the cost of production. Moreover, Raj veer feels that since the company is manufacturing handmade carpets as well as machine made carpets there is lot of overlapping of activities. Therefore, there should be two separate divisions for both of them wherein each division should have its own in charge, plans and execution resources. In context of the above case: Identify and explain the principle of management which is being violated.	10	CO2	K3
	b.	Also identify the principle of management that Raj veer feels should be implemented in the factory	10	CO1	K2

OP JINDAL UNIVERSITY, RAIGARH
END SEMESTER EXAMINATION, DECEMBER-2023 (BACKLOG)
BBA- 02UG010
SCHOOL OF MANAGEMENT
FINANCIAL ACCOUNTING

OPJU
University of Steel Technology and Management

Time: 3 Hrs.				Max. Marks: 100		
Note:						
		Answer any one question from each unit				
		All questions carry equal marks				
				M	**CO**	**KL**

Unit-I (20 marks)

1	a.	Define Accounting. Explain it advantages and limitations	10	1	1
	b.	Explain the qualitative characteristics of accounting.	10	1	1
		OR			
2	a.	Give an account of internal and external users of accounting.	10	1	1
	b.	Explain the concepts of accounting.	10	1	1

Unit-II (20 marks)

			M	CO	KL
3	a.	The following trial balance has been prepared wrongly. You are required to correct it.	10	2	3

Trial Balance
As on 31st March 2021

Name of the account	Debit Balance	Credit Balance
Bank overdraft		2000
Carriage inward	4000	
Carriage Outward	8000	
Cash balance	12000	
Closing Stock		8000
Commission Earned	22000	
Creditors		2000
Debtors	1200	
Discount received	800	
Establishment expenses		20000
Interest on Investment		10000
Loan payable	8000	
Machinery		12000
Manufacturing expenses		44000
Owner's equity	28000	
Purchase returns	14000	
Purchases		14000
Sales	14000	
Sales return	8000	
Wages		8000
	1,20,000	1,20,000

	b.	Explain the needs of Trial balance. Explain various errors that occur in trial balance.	10	2	3

<div align="center">OR</div>

4	a.	Journalize the following transactions: i. Purchased goods worth 20000 less 10% trade discount 5% cash discount half of which is paid in cash and half on credit from Mr. A. ii. Paid rent 5000, rent 2000 and interest 1000. iii. Goods lost in fire 5000 and insurance claim was received for 2000. iv. Paid 1500 for installation of a machine. v. Received in final settlement of 50 paise in a rupee from Aman who owed 20000. vi. Sales 40000, Purchase 30000. vii. The proprietor Withdrew cash worth 20000 for personal use. viii. Bought a cow for 55000.	10	2	3
	b.	Prepare a trail balance from the following extracted balance: Capital- 45000, Bank- 14220, Furniture- 7000, Purchase-20000, Sales- 13000, Furniture- 7000, Purchase return- 500, Discount allowed-20, Discount received- 90, Salary- 2500, Cash- 12000, Drawings- 1050, Telephone rent- 400, Stationary- 150, House Rent- 1050, Sales return- 200	10	2	3

<div align="center">

Unit-III (20 marks)

</div>

5	a.	From the following Trial balance of Mrs. Bhawna on 31.03.2022, prepare Trading, Profit and Loss Account for the year ending 31.03.2022 and the Balance Sheet as on that date:	15	3	3

Particulars	Debit	Credit
Opening Stock	50,000	
Purchases	1,80,000	
Purchases Return		2,000
Bank Loan		20,000
Cash in Hand	300	
Creditors		70,000
Bank Balances	10,000	
Capital		1,68,000
Plant and Machinery	50,000	
Provision for bad debts		1,000
Manufacturing wages	10,000	
Sales		3,22,800
Freight Inward	2,500	
Freight Outward	3,000	

		Salaries	15,000			
		Furniture	30,000			
		Insurance & Taxes	7,000			
		General Expenses	8,000			
		Debtors	90,000			
		Bad debts	2,700			
		Discount	1,300			
		Sales Return	4,000			
		Stable Expenses	3,000			
		Live Stock	15,000			
		Fuel & Power	2,000			
		Building	1,00,000			
		Total	5,83,800	5,83,800		

Adjustments: (a) Closing stock was `40,000. (b) Maintain a provision for bad debts @5% on Debtors (c) Create a reserve for discount @2% on creditors. (d) Depreciate Plant and Machinery by 10%, Furniture by 5% and Live Stock by `2,000. (e) Prepaid insurance `800 (f) Commission to factory manager allowed @10% on net profit before charging such commission.

	b.	Define Final Accounts and explain its objectives.		5	3	2

<div align="center">OR</div>

6	a.	Prepare trading and P/L Account for the year ending 31.03.2022 and prepare balance sheet on the date:		15	3	3

Opening stock 50000	Sundry creditors 16000
Purchases 200000	Office furniture 5300
Sales 350000	Plant & Machinery 85000
Sales return 6000	Establishment expenses 5000
Wages 25000	Advertisement 12000
Carriage 1500	Goodwill 5000
Bad debts 700	Import duty 5000
Bad debts provision 1000	Commission (cr.) 1000
Sundry debtors 55000	Capital 141000
Investments 18000	Personal expenses 16000
Cash 16000	Rent & Insurance 3000

Adjustments:
1. Rent outstanding 500, unexpired insurance 400
2. Commission received in advance 200
3. Write off bad debts 500 and create a provision for doubtful debts @ 2% on sundry debtors.
4. Depreciation on plant & machinery 5%
5. Closing stock 35000

	b.	Write the adjusting entries for the following adjustments: 1. Bad debts 2. Prepaid expenses 3. Managerial remuneration		5	3	3

		4. Provision for discount on debtors 5. Outstanding expenses			

Unit-IV (20 marks)

7	a.	On 1st April 2000, a firm purchased a machinery for 1,50,000 and incurred 10,000 on its installation. On 1st July 2007 it purchased machine costing 1,00,000. On 1st October, 2008 the machinery purchased on 1st January 2005 was sold off for 1,02,000 and on the same date a new machinery was purchased for 3,00,000. Depreciation is provided at 10% on WDV. Prepare machinery account for 4 years.	12	4	3
	b.	Explain the meaning and causes of depreciation.	8	4	2

OR

8	a.	Prepare Bank reconciliation statement: Balance as per pass book 150000 Dividend collected by the bank 15000 Cheques dishonored 20000 Rebate on bills retired 2000 A customer made payment directly to the bank 25000 Insurance premium paid by the bank 6750 Interest allowed by bank 1250 Cheques deposited but not yet presented for payment 35000 Charges collected by bank 1000 A wrong posting on the debit side of the passbook 5000	10	4	3
	b.	Explain the meaning of BRS. What are the reasons for difference in bank book and pass book?	10	4	1

UNIT-V (20 marks)

9	a.	Correct the following trial balance: **Trial Balance** **As on 31st March 2021**	15	3	3

Name of the account	Debit Balance	Credit Balance
Bank overdraft		2000
Carriage inward	4000	
Carriage Outward	8000	
Cash balance	12000	
Closing Stock		8000
Commission Earned	22000	
Creditors		2000
Debtors	1200	
Discount received	800	
Establishment expenses		20000
Interest on Investment		10000
Loan payable	8000	
Machinery		12000
Manufacturing expenses		44000

		Owner's equity	28000				
		Purchase returns	14000				
		Purchases		14000			
		Sales	14000				
		Sales return	8000				
		Wages		8000			
			1,20,000	1,20,000			
	b.	Distinguish between capital and revenue expenditure.			5	1	3
		OR					
10	a.	Journalize the following transactions in the books of Mr Rajendra: Started business with cash 1,00,000, Deposited in bank account 30,000, Purchased goods for cash 25,000 , Purchased equipments 5,000, Purchases goods from Sonu 30,000, Bought stationery 3,000, Sold Goods to Monu 22,000, Sold Goods for cash 23,000, Paid cash to Sonu 20,000, Received cash from Monu 15,000, Paid Electric Bill 3,000, Paid Wages 500 & salary 5000, Mohan Returned goods 1,000, Monu paid in full settlement 5,700, Paid for Advertisement in cheque 2,000			15	2	3
	b.	Explain the golden rule of Journalising.			5	2	3