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1023-Course: MBA **Total Number of Pages: 02**

Sub_Code: 18MBA401A

4th Semester Regular/ Back Examination: 2022-23

SUBJECT: Retail Management

BRANCH(S): MBA,MBA (A & M),FM&HRM,LSCM,MBA (M & F),RM,BA,FM,GM,HRM,IB,MM

Time: 3 Hours Max Marks: 100 **Q.Code: M559**

Answer Question No.1 (Part-1), which is compulsory, any eight from Part II and any two from Part III.

The figures in the right-hand margin indicate marks.

Part-I

Q1 Answer the following questions:

(2 x 10)

- a) What do you mean by store design?
- 26/08/2023--1 Write two important aspects of pricing in retailing.
- Define the term multi-channel retailing. c)
- What do you mean by chain store? d)
- Define the term store layout. e)
- What is a convenience store? f)
- g) What is GMROI?
- h) What is licensing?
- Define the term distribution centres. i)
- What is retail promotion mix?

Part-II

Q2 Only Focused-Short Answer Type Questions- (Answer Any Eight out of (6×8) Twelve)

- Explain the concept of the retail mix and its components.
- What is visual merchandising, and how does it impact customer experience?
- c) Discuss the differences between organised and unorganised retailing.
- Define retail management and explain its importance in the current business environments.
- Describe the advantage of E-retailing over store-based retailing. e)
- What are the factors that a retailer needs to take into account while designing a store?
- What are the factors that influence retail consumer behaviour?
- Explain the concept of the retail strategic planning process in detail.
- Explain the concept of atmospherics in retail. Discuss the components of retail store atmospherics.
- Discuss the role of technology in enhancing the in-store shopping experience. j)
- Explain the concept of the retail marketing mix (4Ps) and how it differs from the k) traditional marketing mix.
- I) Describe the steps involved in developing a retail business plan.

Part-III

Only Long Answer Type Questions (Answer Any Two out of Four)

- Q3 Analyse and state in detail the factors that are considered in finalising a proper a) (8x2)store location.
 - What do you understand by the term retailer? Explain the duties and b) responsibilities of a retail store manager in today's competitive era.
- Why the use of visual merchandising is increasing day by day? Explain the Q4 (8x2)objective and different elements that make up effective visual Merchandising.
 - Discuss the role of branding in retail and how it influences customer purchasing decisions?
- Q5 What are the types of buying decisions in retail marketing? Illustrate with suitable a) (8x2)examples.
 - What do you mean by retailing? Explain the store and non-store-based retailers b) with suitable examples.
- es associated v How do retailers determine the optimal pricing strategy for their products? Discuss Q6 (8x2)

102-26|08|2023--1

What are the challenges and opportunities associated with international retail

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MBA/MBAP 18MBA401B

4th / 6th Semester Back Examination: 2022-23 SUBJECT:BUSINESS TAXATION BRANCH(S): MBA /MBAP

> Time: 3 Hour Max Marks: 100 Q.Code: M081

Answer Question No.1 (Part-1) which is compulsory, any eight from Part-II and any two from Part-III.

The figures in the right hand margin indicate marks.

Part-I

Q1 Answer the following questions:

 (2×10)

- a) Who is a deemed assessee?
- b) Who is an assessee in default?
- c) Under what heads you will classify income of a person?
- d) What do you mean by rounding of total income and rounding off tax?
- e) Who should have a PAN in India?
- f) Who are exempted from quoting PAN?
- g) When does payment of short term capital gains tax arise?
- h) What do you mean by Allowance and Special allowance? Give examples.
- i) How do you treat an income as an Indian Income or as a Foreign income?
- j) What is the taxability of advance salary and arrear salary?

Part-II

Q2 Only Focused-Short Answer Type Questions- (Answer Any Eight out of (6 × 8) Twelve)

- a) Discuss the features of Income Tax.
- **b)** Explain the cannons of Taxation.
- c) What is agricultural income? What does it include? What is the tax liability?
- **d)** Is there any income which are assessed to tax the same year in which he earns it? What are these?
- e) What are provident fund? Explain the different kinds of provident funds.
- f) Explain the tax treatment of house rent allowance.
- g) Incidence of tax is greatest for the resident, moderate for resident but not ordinarily resident and less for non-resident. Substantiate.
- h) What are perks? Explain different types of perks.
- i) What are the situations where rental income is not treated as house property income?
- j) What are the deductions allowed from Annual Value of house property while computing the income from house property?
- **k)** Distinguish between income from business and income from profession.
- I) Discuss the provisions regarding investment allowance for investment in new plant and machinery.

Part-III

Only Long Answer Type Questions (Answer Any Two out of Four)

- State six incomes chargeable under the income from other sources. Discuss the Q3 (16)inadmissible expenses under section 57. Discuss the salient features of GST. Q4 (16)Q5 Explain the positive and negative impact of GST. (16)Q6 Following incomes are received by Mr. Ajay (resident) in the previous year. (16)Compute his taxable income from the head other sources. a. Director's fees Rs. 10,000 b. Interest from post office savings bank account 500
 - c. Dividend received from cooperative society Rs. 7000
 - d. Winning from Andhra Pradesh State Lottery Rs. 28.000 net

 - e. Family pension received Rs. 30,000 pa
 - f. Dividend received on preference shares Rs. 10,000 pa
 - g. Insurance commission received Rs. 23500 (Expenses incurred in earning insurance commission Rs. 2500)
- anothe 102-07108/2023--1 h. Mr. Ajay received a gold chain from his friend as gift. Its fair market value is Rs. 32,000 and painting from another friend as gift. Its fair market value is

102-07/08/2023--1

Registration No:					•					
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Total Number of Pages : 02 Course: MBA

Sub Code: 18MBA401C

4th Semester Regular/Back Examination: 2022-23
Team Dynamics at Work

MBA,FM&HRM,LSCM,RM,BA,FM,GM, HRM,IB,MM,MBA (M&F)

Time: 3 Hours Max Marks: 100 Q. Code: M149

Answer Question No.1 (Part-I) which is compulsory, any eight from Part-II and any two from Part-III.

The figures in the right hand margin indicate marks.

Part-I

Q1 Answer the following questions:

 (2×10)

- a) What is the basic purpose of a team formation?
- **b)** What do you mean by group norms?
- c) How the corporate culture influences growth of a team?
- d) What is the training requirement for a team?
- e) What is a negative team dynamics?
- f) How creativity of members influence the progress of a team?
- g) How diversity training helpful for the team members?
- h) How team success can be measured?
- i) Write a short note on cross functional team.
- j) How virtual team communicates?

Part-II

Q2 Only Focused-Short Answer Type Questions- (Answer Any Eight out of (6 × 8) Twelve)

- a) What are the prerequisites for a team success?
- **b)** Conflict within a team is inevitable. Comment.
- c) Explain the process of team decision making.
- d) Managing a team is as challenging as team development. Discuss.
- e) Elucidate the role of diversity and inclusion in team performance.
- f) Explain the process of solving a business problem by a team with example.
- g) Distinguish between a group and a team from organizational perspective.
- Explain the process of group formation.
- i) What are the internal and external factors influences a team success?
- j) Team communication is often multidimensional. Comment.
- **k)** Explain the balance between cooperation and competition from a team perspective.
- I) Discuss the emergence and challenges of virtual teams.

Q3	How to evaluate the team performance? Discuss the reward strategy for a high performing team.	(16)
Q4	Discuss the role and functions of a team leader. Explain how power relations established in a professional team.	(16)
Q5	Elucidate the team building process in an organization. How different types of teams emerge and function in an organization?	(16)
Q6	What are the salient objectives of team dynamics? How to manage the communication and collaboration among the team members?	(16)
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Course: MBA

Sub_Code: 18MBA401D

4th Semester Regular / Back Examination,2023 SUBJECT : MANAGEMENT OF MANUFACTURING SYSTEM BRANCH(S): MBA,RM,BA,GM

> Time: 3 Hour Max Marks: 100 Q.Code: M558

Answer Question No.1 (Part-1) which is compulsory, any eight from Part-II and any two from Part-III.

The figures in the right hand margin indicate marks.

Part-I

Q1 Answer the following questions:

(2 x 10)

- a) Outline the basic concept of Kanban system.
- **b)** What do you understand by Assembly line?
- c) Differentiate between pull and push concept of Kanban.
- d) Outline the benefits of flexible manufacturing system.
- e) What is production flow analysis?
- f) State the advantages of JIT production system.
- g) What purpose Gantt chart solves?
- h) What do you understand by machine loading?
- i) Differentiate between production and manufacturing.
- i) What is understood by machine loading?

Part-II

Q2 Only Focused-Short Answer Type Questions- (Answer Any Eight out of (6 x 8) Twelve)

- a) Discuss the factors which affect the productivity of a manufacturing system.
- **b)** Elucidate the DBR Methodology.
- c) State the qualitative analysis in cellular manufacturing.
- d) Discuss the requirements of good manufacturing and assembly lines.
- e) What is the role of demand management in Assemble- to -order environment?
- f) Explain the process mapping in work environment.
- g) Outline the framework of Flexible Manufacturing System.
- **h)** Enumerate the constraints in manufacturing system.
- i) What do you mean by inter- cell movement? How can it be minimized?
- j) Outline the constraints in manufacturing system.
- **k)** Briefly explain the concept of "control based on theory of constraints".
- I) Differentiate between process layout and product layout with examples.

Q3 Explain the various steps involved in a production flow analysis (PFA). Also point (16)out the advantages and disadvantages associated with it. FMS. **Q4** "An effective layout of plant not only optimizes the space utilization but reduces (16)material handling cost ". Elaborate the statement explaining essential of good plant layout and factors which are needed to be considered while adopting a particular type of layout. **Q5** Enumerate the scope for FMS in the world of manufacturing today. State the types (16)and composition. Define process mapping. What are the generic building blocks of process Q6 (16)102-26/08/2023-1 102-26/08/2023-1 mapping? With a flow chart explain process mapping in work environment.

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MBA 18MBA402A

4th Semester Regular / Back Examination: 2022-23 **SUBJECT: Product & Branding Management**

MBA,MBA (A & M),FM&HRM,LSCM,MBA (M & F),RM,BA,FM,GM,HRM,IB,MM

Time: 3 Hour Max Marks: 100 Q.Code: M205

Answer Question No.1 (Part-1) which is compulsory, any eight from Part-II and any two from Part-III.

The figures in the right hand margin indicate marks.

Part-I

Answer the following questions: Q1

 (2×10)

- a) What is brand positioning?
- -11/08/2023--1 What do you mean by Line extension? b)
- What is brand reinforcement?
- **d)** What is co-branding?
- Define Brand Identity prism. e)
- What is product life cycle? f)
- Define emerging market. g)
- h) What is brand ethics?
- Explain FMCD products and give one example. i)
- i) What is marketing-mix?

Part-II

Only Focused-Short Answer Type Questions- (Answer Any Eight out of (6×8) Q2 Twelve)

- Discuss the challenges and opportunities that the emerging Indian market presents for product managers. Provide examples to support your arguments.
- b) What is a product? Explain the various types of products.
- Explain the concept of the Product Life Cycle (PLC) and its various stages. How does a company's marketing strategy need to evolve as a product progresses through each stage?
- Define the concept of product management and its significance in the modern business landscape. How does it differ from traditional product development approaches?
- Define brand architecture. Discuss the advantages and challenges of various brand architecture models, considering their impact on consumer perception.
- Define brand equity and its components. Explain how brand equity contributes to the overall valuation of a company.
- g) What is brand rejuvenation? Discuss the various risks that are expected from a brand during rejuvenation process.

- Discuss the key factors that contribute to the success and failure of a brand. Provide a brand example.
- Briefly outline the key stages involved in the process of brand building. i)
- Discuss the significance of each stage and the challenges associated with bringing a new product to market.
- What is brand identity? Explain the various brand identity traps with suitable k)
- What is brand personality? How companies create brand identity? I)

Part-III

Only Long Answer Type Questions (Answer Any Two out of Four)

Describe the various dimensions used for classifying products. Q3 a)

(8x2)

- How do these classifications influence the product management strategy within a company?
- **Q4** Define brand loyalty and explain its significance for Indian businesses.

(8x2)

- Discuss the strategies that companies can employ to foster and maintain brand b) loyalty among customers.
- Q5 Explain the concept of product mix and product line decisions.

(8x2)

- How can a company effectively manage its product mix to cater to diverse customer needs while maintaining a coherent brand identity? Illustrate with realworld examples.
- Explain the transformative impact of social media on branding strategies. Q6 a)

(8x2)

and comm b) Discuss how brands leverage various social media platforms to engage with consumers, create brand communities, and amplify brand messages.

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Course: MBA, MBAP

Sub_Code: 18MBA402B/18PTMBA602B

4th/6th Semester Regular / Back Examination: 2022-23

BEHAVIOURAL FINANCE

BRANCH(S): MBA, FM&HRM, LSCM,MBA (M & F), RM,BA, FM, GM,HRM, IB, MM, MBA(PT)

Time: 3 Hour Max Marks: 100 Q.Code: M 250

Answer Question No.1 (Part-1) which is compulsory, any eight from Part-II and any two from Part-III.

The figures in the right hand margin indicate marks.

Part-I

Q1 Answer the following questions:

 (2×10)

- a) What is behavioural finance micro?
- b) What are the foundations of standard finance?
- c) Name two Noble Laureates who contributed to the behavioural finance theory?
- d) What is cognitive dissonance?
- e) Which biases are grouped as heuristic biases?
- f) Which types of biases are emotional?
- g) What is bounded rationality? Who propounded this theory?
- h) Who is called a rational economic man (REM)?
- i) Which biases are grouped under prospects theory?
- i) What is herd mentality in stock investment?

Part-II

Q2 Only Focused-Short Answer Type Questions- (Answer Any Eight out of (6 × 8) Twelve)

- a) Discuss the nature of overconfidence bias among investors in the stock market.
- b) What is regression bias? How could you judge an investor having this bias?
- c) Describe loss aversion bias ant the diagnostic tests.
- d) Explain mental accounting bias.
- e) Discuss the nature of confirmation bias among the investors.
- f) Which factors that do not affect investor behaviour?
- g) Discuss the features of anchoring bias.
- h) What is Ellsberg's paradox? Explain in detail.
- i) What is optimism bias? What are its effects on investors?
- j) What are the characteristics of bubbles in stock market?
- k) Who is an average investor? Discuss his risk return profile.
- I) Discuss the tulip mania.

102-14/08/2023--1

Q3	Discuss the external factors which significantly affect the investor behaviour in the stock market.	(16)
Q4	Explain different types of investors and their nature in the stock market.	(16)
Q5	Explain the emotional stages of an investor trading in the stock market in brief.	(16)
Q6	Critically examine if women investors are more biased than the male investors with special reference to the stock market investment.	(16)

102-14/08/2023--1

MBA / MBAP 18MBA402C / 18PTMBA602C

4th Semester Regular/ Back Examination: 2022-23

SUBJECT : Strategic HRM

MBA,FM&HRM,LSCM,RM,BA,FM,GM,HRM,IB,MM,MBA (M & F),MBA(PT)

Time: 3 Hour Max Marks: 100 Q.Code: M339

Answer Question No.1 (Part-1) which is compulsory, any eight from Part-II and any two from Part-III.

The figures in the right hand margin indicate marks.

Part-I

Q1 Answer the following questions:

 (2×10)

- a) What is the course Objective of SHRM?
- b) Define Strategic HRM in your own words.
- c) What do you mean by Strategic HR?
- d) How Strategic HR is different from Traditional HR?
- e) What is Investment perspective in HR?
- **f)** What is an Integrated HR System?
- **g)** What do you understand by Best Fit Approach?
- **h)** Define Strategic Performance Management.
- i) What is competence of Global Managers? State in few lines.
- j) What are Strategic HR Policies?

Part-II

Q2 Only Focused-Short Answer Type Questions- (Answer Any Eight out (6 × 8) of Twelve)

- a) Investment in Training & Development is essential in an Organization. Explain with the benefits of investment in Training & Development.
- b) How can we link HRM Practices to Organization Outcomes? Elaborate with example.
- c) What are the emerging issues in Strategic HRM? Explain.
- **d)** What can be the possible strategies for Training and Development?
- **e)** To get Global competitive advantage we may need Global Competent Managers. Do you agree? Elaborate.
- **f)** Distinguish between expatriation & repatriation.
- **g)** Discuss the strategic issues in international assignments.

- Differentiate between 'Best Fit' approach and 'Best Practice' approach. h)
- Managing Global human Resources is a challenging task. Why it is so? i) Explain with your own understanding.
- High Performance Practices are essential to derive competitive advantage. j) Explain.
- How the strategy will help for a better utilization of Human Resources in an k) Organization? Explain.
- Core competencies derive the competitive advantage. If you agree on the I) statement, explain with example.

- Q3 Alignment of HRM with Business Strategy is very much essential for growth (16)and profit. How the Organization align both HRM & Business Strategy. Explain with approaches.
- Q4 What are the various approaches to strategic HRM? Explain detail. (16)
- Q5 What is the investment prospective of Human Resources? In which area of (16)the HRM the investment to be made and why?
- Write notes on the following Q6 (16)

102-17/08/2023--1

- ategy as & SHR i. Employee Engagement Strategy.
 - Corporate Ethics, Values & SHRM

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Total Number of Pages : 02 Course: MBA

Sub Code: 18MBA402D

4TH Semester Regular/Back Examination: 2022-23

SUBJECT: Sourcing Management BRANCH(S): MBA,RM, BA,GM, MBA (M&F)

Time: 3 Hour Max Marks: 100 Q.Code: M148

Answer Question No.1 (Part-1) which is compulsory, any eight from Part-II and any two from Part-III.

The figures in the right hand margin indicate marks.

Part-I

Q1 Answer the following questions:

(2 x 10)

- a) Explain benefits of global Sourcing.
- b) What do you mean by captive sourcing? Give an example.
- c) Differentiate between short term contract and long term contract.
- d) What are the primary drivers of global sourcing?
- e) Explain the benefit of decentralized distribution Strategy.
- f) What is a competitive tender?
- g) Explain types of systematic risk.
- h) What is the main tool used for risk management?
- i) What do you mean by vendor risk portfolio?
- j) Explain the term BATNA.

Part-II

Q2 Only Focused-Short Answer Type Questions- (Answer Any Eight out (6 × 8) of Twelve)

- a) What are the problems and challenges of global sourcing? Explain.
- b) What are the reasons for International purchasing?
- c) Write advantages and disadvantages of global sourcing.
- **d)** How does a company have to be to benefit from global sourcing?
- e) How can be global sourcing successfully?
- f) Write a note on various criteria for evaluation of vendor's performance.
- g) What are the techniques involved in vendor selection process?
- h) Explain advantages and disadvantages of vendor rating.
- i) What do you mean by self certify vendor management? Explain its significance.
- j) What skills do you need to be a global sourcing manager?
- k) Write short notes on supplier's score card.
- What do you mean by Learning Curve? What are the factors affecting learning curve?

	Q3 W
(16)	Q4 Di
(16)	Q5 W ac ch SF
(16)	Q6 W (a) EI (b) Gi (c) Qi
	102-09/08/2
	(b) G

MBA

18MBA403A / 18PTMBA603A

SUBJECT: B2B MARKETING

MBA,MBA (A & M),FM&HRM,LSCM,MBA (M & F),RM,BA,FM,GM,HRM,IB,MM, MBA(PT)

Time: 3 Hour Max Marks: 100 Q.Code: M403

Answer Question No.1 (Part-1) which is compulsory, any eight from Part-II and any two from Part-III.

The figures in the right hand margin indicate marks.

Part-I

Q1 Answer the following questions:

(2 x 10)

- a) State the role of gatekeeper in buying center.
- **b)** Explain derived demand in B2B marketing with a suitable example.
- c) Differentiate between modified rebuy and straight rebuy.
- d) What is a value-added reseller?
- **e)** Mention two inventory management methods used in business marketing.
- f) Outline the steps in B2B buying process.
- g) Differentiate between tender and quotation
- h) Highlight the differences between FOB and ex-factory price.
- i) Outline the functions of order processing in B2B.
- j) Explain the initial stage in the purchase decision making process.

Part-II

Q2 Only Focused-Short Answer Type Questions-(Answer Any Eight out of (6 × 8) Twelve)

- a) Explicate the factors affecting pricing decisions in B2B marketing.
- **b)** Effective sales force management is fundamental to the firm's success. Comment.
- c) How can B2B companies use relationship marketing?
- **d)** Discuss the role of branding in business marketing.
- e) Distinguish between macro segmentation and micro segmentation in B2B marketing.
- f) Discuss the negotiation strategies a B2B firm should devise in order to boost the sales.
- g) Explain the key factors that influence B2B buying decisions.
- h) Describe the differences between B2B and B2C marketing with examples.
- i) Elaborate the role of various types of business intermediaries.
- **j)** Explain the functions of a buying center.
- **k)** What is value creation? Why is value creation important in B2B?
- I) Discuss the online strategies to target your B2B audience.

Q3 A large consumer goods company recently entered the business market with (16)a new product with broad industrial application. They must develop a channel of distribution through which the product will be sold. Discuss the key factors the company must evaluate while designing the channel. Q4 What is the significance of logistics management in B2B marketing? (16)Elucidate the logistics activities in supply chain management. Q5 What are the objectives of B2B branding? Discuss the branding strategies a (16)B2B computer hardware company should devise in order to build customer loyalty and promote its business. ctions performance in the second seco What are the different types of channel intermediaries in business-to-(16)business marketing? Briefly explain the functions performed by the channel

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Total Number of Pages : 02 Course : MBA / MBAP

Sub Code: 18MBA403B/18PTMBA603B

4th/ 6th Semester Regular/ Back Examination: 2022-23 SUBJECT: Mergers and Corporate Restructuring

MBA,FM&HRM,LSCM,MBA (M & F),RM,BA,FM,GM,HRM,IB,MM, MBA (A & M)

Time: 3 Hour Max Marks: 100 Q. Code: M453

Answer Question No.1 (Part-1) which is compulsory, any eight from Part-II and any two from Part-III.

The figures in the right-hand margin indicate marks.

Part-I

Q1 Answer the following questions:

(2 x 10)

- a) Define a leveraged buyout.
- **b)** What is a conglomerate?
- c) What is a public offer by one firm to directly buy the shares of another firm is called?
- d) What do you mean by growth strategy?
- e) In what conditions the reverse merger can takes place?
- **f)** Define integration strategy?
- g) Who plays the leading role in MBO process?
- h) Define refinancing activity.
- i) What are the benefits of take over?
- j) Who are the regulatory authorities to control the M & A activity?

Part-II

Q2 Only Focused-Short Answer Type Questions- (Answer Any Eight out of (6 x 8) Twelve)

- a) What is the role of strategic intent in corporate restructuring process?
- b) What are the steps to be taken by corporate to prevent failure of merger and acquisition activity?
- c) Distinguish between Spin-offs and split-off.
- d) Discuss how DCF method is applied?
- e) Explain the various types of merger activities.
- f) Explain the motives and benefits of international merger.
- **g)** Differentiate between external reconstruction and internal reconstruction.
- h) Differentiate between operating synergy and financial synergy.
- i) What is the role of SEBI in regulating M & A activities?
- j) What are the needs of the corporate divestiture? Explain types of divestitures available.
- **k)** Give a step wise detail of employee buy outs process.
- I) Give details of two anti-takeover strategies.

Part-III

	Only Long Answer Type Questions (Answer Any Two out of Four)	
Q3	Explain in detail the various forms of takeovers and their procedure.	(16)
Q4	Give a detail note on the provisions of Companies Act 2013 regarding merger and acquisition.	(16)
Q5	"The discounted cash flow (DCF) approach is conceptually the best among various approaches for business valuation". Do you agree? Explain your answer with examples.	(16)
Q6	"Recent times are witnessing a surge in M&A activity across the globe". Comment on the statement discussing examples of four recent mergers.	(16)



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MBA / MBAP 18MBA403C / 18PTMBA603C

4th / 6th Semester Regular / Back Examination: 2022-23

SUBJECT: Industrial Legislations

MBA,FM&HRM,LSCM,RM,BA,FM,GM,HRM,IB,MM,MBA(M & F),MBA(PT)

Time: 3 Hour Max Marks: 100 Q. Code: M516

Answer Question No.1 (Part-1) which is compulsory, any eight from Part-II and any two from Part-III.

The figures in the right hand margin indicate marks.

Part-I

Q1 Answer the following questions:

(2 x 10)

- a) A woman worker after continuous working for 4 months decides to take leave. How many days of leave she will be entitled to? In case she is a girl of 14.5 years of age, what leave will she be allowed?
- Who are certifying surgeons? Mention two important duties discharged by them. b)
- A worker lost his mental balance as a result of an injury by accident while working in the factory and committed suicide. Will the employer liable to pay compensation? Justify.
- A worker working in a shed was injured by the fall of a wall which was not the property of the employer. Will the employer be liable to pay compensation to the injured worker? Justify.
- e) Define the term employment injury as in ESI Act, 1948.
- Can an employer reduce wages of an employee by reason of his liability for the payment of any contribution to the provident fund?
- A, an employee, enters into a contract with his employer B to accept his wages in kind and not in money. Later, A wants to demand wage in cash. State the rights and obligations of A and B.
- h) Suppose a worker is paid less than the minimum wages, what right does he have to get back his due wages? What should he do?
- There is a dispute between a dismissed employee on one side and the employer on the other side in connection with the non-employment of the employee. Is this an industrial dispute?
- When is an employee disqualified from receiving bonus?

Part-II

102-2419 Q2 Only Focused-Short Answer Type Questions- (Answer Any Eight out of (6×8) Twelve)

- a) What are the statutory provisions with respect to maintaining health of the workers of a factory? Discuss.
- b) What is hazardous process? What are the specific responsibilities of the occupier in relation to hazardous process?

- c) An employee under the influence of drink touched a live wire while working at a machine and instantaneously died. His widow claimed compensation but the employer took the plea that he was not liable as the accident arose out of a default by the employee. Decide.
- Define and discuss "arising out of and in course of employment" as used in Employee's Compensation Act.
- What are the different types of benefits provided by the ESI Act, 1948?
- Write a note on the scope and object of the EPF & MP act, 1952. f)
- What is the rate of payment of gratuity to an employee? When does an employee forfeit his right to gratuity?
- Define wages and industrial establishment under the Payment of Wages Act. h)
- i) State the constituents of minimum wages underpayment of Minimum Wages Act.
- What is a Public utility service unit? Enumerate the statutory provisions prohibiting strikes in a public utility service.
- Write a note on grievance settlement authority. k)

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Define a workman and industry under Industrial disputes Act.

Part-III

Only Long Answer Type Questions (Answer Any Two out of Four)

- Q3 What are the matters to be provided for in the standing orders under the Industrial (16)Employment (Standing Orders) Act, 1946?
- Q4 Write briefly how trade unions are registered and certificates thereof issued under (16)the Trade Union Act, 1926. Can a minor be admitted as a member of a trade union?
- What are the conditions for the eligibility of bonus? When is an employee Q5 (16)disqualified from receiving bonus? What is the minimum bonus a company is bound to pay?
- Q6 Discuss the provisions regarding closure of an industrial unit having 500 workers in (16)102-24/08/2023--1 the roll on the date of closure.

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123-1 **Total Number of Pages: 02** Course: MBA

Sub Code: 18MBA403D

4TH Semester Regular / Back Examination: 2022-23 **SUBJECT: Operations Research Application** BRANCH(S): MBA,RM,BA,GM

Time: 3 Hour Max Marks: 100 **Q.Code: M338**

Answer Question No.1 (Part-1) which is compulsory, any eight from Part-II and any two from Part-III.

The figures in the right hand margin indicate marks.

Part-I

Q1 Answer the following questions:

(2 x 10)

- Define a pure integer programming problem.
- Which method is commonly used to solve Quadratic programming Problem?
- Where is Branch and Bound method used? c)
- What are the advantages of dynamic programming? d)
- What are the methods used in solving integer programming problem? e)
- Differentiate between top down and the bottom up approach. Give a real life example of Vehicle routing problem.
- Write mathematical model of transportation problem.
- What are the different types of vehicle routing problem? h)
- Where vehicle routing problem is used? i)

102-17

Explain the term Balking and Reneging in queuing. i)

Only Focused-Short Answer Type Questions- (Answer Any Eight out of Q2 Twelve)

- What do you mean by scheduling system? Explain different types of scheduling a)
- Explain Non primitive priority scheduling with giving advantages and disadvantages.
- What do you mean by Vehicle routing problem? Explain its types.
- What are the different ways to solve Vehicle routing problem?
- What do you mean by portfolio optimization? Explain the process of optimal portfolio.
- A branch of Punjab National bank has only one typist. Since the typing work varies in length, the type rate is randomly distributed approximately a poisson distribution with mean service rate of 8 letters per hour. The letters arrive at a rate of 5 per hour during the entire 8 hours work day. If the type writer is valued at Rs.1.50 per hour. Determine Equipment utilization, the percent time that an arriving letter has to wait, Average system time and average cost due to waiting on the part of typewriter i.e it remaining idle.

g) Find out total transportation cost using Northwest corner rule:

Storehouse→	Α	В	С	Supply
Company↓		23		
Р	12	15	19	200
Q	10	14	18	300
R	11	19	22	400
Demand	100	550	250	900

- h) What are the variants involved in vehicle routing problem? Explain.
- i) Explain the steps of Wolfe's method for solving quadratic programming problem.
- State and explain Kuhn-Tucker condition. j)
- k) What do you mean by initial basic feasible solution? How to find out initial basic feasible solution using Northwest corner rule giving suitable example.
- Briefly explain elements of Queuing system?

Part-III Only Long Answer Type Questions (Answer Any Two out of Four)

- Q3 What are the different types of models used in operation research? Explain. (16)
- Q4 What are the tools and techniques used in operations research? Explain. (16)
- Q5 The profit for the three markets as a function of sales effort expended, is given in (16)the table below. How will you distribute a given number os salesmen, so as to achieve maximum profit (Using Dynamic Programming)

No of sales Man	0	1	2	3	4	5	6	7
Market1.	40	42	50	60	66	75	82	90
Market2	50	60	65	75	85	95	110	120
Market3	50	60	70	80	88	105	115	130

(16)

Q6 Find an optimum integer solution to the following LPP

Max Z = X = 2Y

Subject to constraint: $X + Y \le 7$ 102-1710812023--

2Y ≤ 7

102-1710812023--1 $X,Y \ge 0$ and X,Y are integer