2023(New)

Time: 3 hours

Full Marks: 70

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

Answer from both the Groups as directed.

Group - A

Answer any four questions of the following:

 $10 \times 4 = 40$

- Describe Financial Management. Explain its objectives and scope.
 - Explain different source of Business Finance.
- On Prepare Trial Balance from the following information: (Figure in lacs)

Land

100 ♥ Creditors

3

SX - 193/3

- 4. Define the term Planning. Describe, in brief, the process of planning.
- 5. What is Organisation and explain its importance?
- 6. What is Delegation ? Can responsibility be delegated ?
- What is Staffing ? Explain the different steps involved in staffing process.
- 8. What is Leadership? What are essential qualities of a good leader?

Group - B

Answer all questions of the following: $3 \times 10 = 30$

- 9. What is Motivation ?
 - 10. What is Communication?
 - 11. Define Co-ordination.
- 12. Define Centralisation.
- 13. Define Control.
 - SX 192/2 (2)
- Contd.

- 14. Define Direction.
- 15. Is Management a Science or an Art, or both ?
- 16. What is informal organisation?
 - 17. What is Administration?
 - 18. Define Ethics.

SX - 192/2 (500) (3) UG - BCA (C-602)

2023(New)

Time: 3 hours

Full Marks: 70

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

Answer from both the Groups as directed.

Group - A

Answer any four questions of the following:

 $10 \times 4 = 40$

- 1. Define Management and explain its importance.
- Describe the different levels of Management and explain their functions.
 - 2. Explain the principles of Management as propounded by Henry Fayol.

- (g) What do you mean by Depreciation?
- (h) What do you mean by General Reserve?
 - (i) What is Money Measurement Concepts?
 - (i) What do you mean by Intangible Assests 7

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:	Building	200	14 Purchases return	1				Rs,	
-	Capital	150	⊮Sales retum	5		8/4/23 Fur	niture purchases	50,000	
-1	Sales	500	1. Debtors	32	90	10/4/23 Ba	ank loan taken	70,000	
۲,	Drawing	11	Prepaid salaries دا	2	6.	What do yo	u mean by Financi	al Accounting.	
Ġ	Bills receivable	10	General Reserve	5		Explain its m	ain objectives.		
5	Bills Payable	2	Fumiture	4	7.	Explain the c	lassification of Assets	and Liabilities	
5	Rent	12	20 Computer	2	•				
:	Salaries	40	י Cash	10	8.		y Fundamental Accor	unting concepts	
13	Fixed deposit	15	22 Out standing rent		•	and principle	:S.		
,,	Stock	20	23 Interest on fixed		•	•	Group – B		
			deposite	1		(Short-	answer Type Ques	tions)	
1.4	Purchases	200			9.	Answer all qu	uestions of the follow	ing: 3×10 = 30	
4.	Explain the Adv	vantag	ge and Limitation of F	inancial		(a) What do	you mean by Gross	Profit?	
	Accounting.					(b) What d	o you mean by Tr	ading and PL	
5.	Give Journal E	ntries	••		L	Account	?		
J .	Give Journal L			Rs.		(c) What do	you mean by Opera	ting Activities	
	1/4/23 Goods Purchases for 5 l			lacs	(d) What is Double Entry System?				
	2/4/23 Good			lacs		(e) What is	Dividend?		
	4/4/23 Rent			,000		(f) What do	you mean by Equity	Shares?	
SX	– 193/3		(2)	Contd.	SX L4	_ _ 193/3	(3)	Contd.	

- 16. What are knowledge workers ?
- 17. Management is an art of getting things done by others. Comment your view.
 - 18. Name some important tools of MIS.

CODVDICUT DES-

- 3. What is decision making ? In managing the business of a restaurant what are some decisions that must be made in the areas of :
 - (a) Strategic planning
 - (b) Managerial control
 - (c) Operational control
- 4. What is Decision support system? Describe different levels and components of DSS. List some important benefits and problems do you anticipate with the implementation and use of DSS.
- Discuss the methods and major steps for implementation of MIS design. Are they overlapping or exclusive? Explain.
 - 6. Discuss any two of the following:
 - (a) SCM
 - (b) ESS
 - (c) ERP
 - What are important characteristics of information?
 Also distinguish between data and information.
 - SX 202/2
- (2)

Contd.

 Enumerate the important issues and soft spots in developing a Management Information System.

Group - B

Answer all questions:

 $3 \times 10 = 30$

- 9. Explain why information systems are so essential in business today.
 - 10. What is the impact of IT in MIS?
- 11. Explain cost/benefit analysis of information system.
- 12. Explain various methods to collect data (fact-finding techniques).
- 13. Explain how CRM benefit the business.
- 14. Why is MIS looked upon as a strategic need of Management today?
 - Discuss why 'Feedback' and 'Control' are considered the 'Key system concepts' of any system.

SX - 202/2

(3)

(Tum over)

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2023(New)

Time: 3 hours

Full Marks: 70

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

Answer from both the Groups as directed.

Group - A

Answer any four questions of the following:

 $10 \times 4 = 40$

- What is MIS? What are the various functions of MIS? Explain in detail different characteristics of Management Information System.
- What do you understand by information? List and explain various types of Information in an organization.

SX - 202/2

UG — BCA (C - 601)

2023(New)

Time: 3 hours

Full Marks: 70

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

Answer from both the Sections as directed.

Section - A

Answer any four questions of the following:

 $10 \times 4 = 40$

- Define Operation Research and discuss its scope.
- Explain the guidelines on linear programming model formulation with an example.

SX - 191/3

Section - B

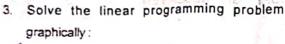
- 9. Answer all questions of the following: 3×10 = 30
 - (a) Discuss the role of Computers in Operation research.
 - (b) What are the limitations of Operation Research?
 - (c) Define linear programming problem.
 - (d) Define assignment model.
 - (e) Plot the graph for:

$$x-2y \le 1$$

$$x + 2y \ge 3$$

- (f) Define Non-degenerate basic feasible solution.
- (g) How Assignment problem is different from Transportation problem?
- (h) Define Infeasible solution.
- (i) What are the basic difference between PERT and CPM.
- (j) Define float and give its types.

SX – 191/3 (500) (4) UG — BCA (C – 601)



S.t.
$$z = 3x_1 + 5x_2$$
 CSOS
S.t. $x_1 + 2x_2 \le 20$
 $x_1 + x_2 \le 15$
 $x_2 \le 8$
 $x_1, x_2 \ge 0$

Solve the linear programming problem graphically:

Min.
$$Z = 3x_1 + 5x_2$$

S.t. $x_1 + 3x_2 \ge 3$
 $x_1 + x_2 \ge 2$
 $x_1, x_2 \ge 0$

5. Using simplex method to solve the linear programming problem:

Max.
$$Z = x_1 + 2x_2 + 3x_3$$

S. t. $4x_1 + 2x_2 + x_3 \le 4$
 $x_1 + 2x_2 + 3x_3 \ge 8$
 $x_1, x_2, x_3 \ge 0$

Max.

Contd.

Determine Basic feasible solution by North West corner method:

17	2000	W ₁	W ₂	W ₃	W ₄	W ₅	Supply	,
258	/ F ₁	3	4	6	8	9	20	
WY	F ₂	2	10	1	5	8	30	
	F ₃	7	11	20	40	3	15	
	F ₄	2	1	9	14	16	13	. 0
	· Demand	40	6	8	18	6		850

Find the optimal assignment for the assignment with the following cost matrix:

Otan O. T.	1	Machines				
	, ,	I	İ	. JH	IV	
	Α	5	3	1	8	
Jobs	В	7	9	2	6	
	С	6	4	5	7	
	D	5	7	7	6	

8. For a certain activity the total float is 12 weeks and the head event slack in 3 weeks. Compute the free float for this activity.

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2023(New)

Time: 3 hours

Full Marks: 70

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

Answer from both the Groups as directed.

Group - A

Answer any four questions of the following:

 $10 \times 4 = 40$

- Define network security. Discuss different types of security services in detail.
- 2. Define cryptography and its benefits. What are the few major applications of cryptography in the modern world?
- Explain RSA cryptography algorithm with suitable example.

SX - 201/3

- What is digital signature? Explain the working of digital signature with a neat diagram.
- What are the principles of authentication?
 Explain Kerberos authentication protocol in detail.
- What is Transport Layer Security (TLS) protocol?
 Briefly explain the purpose of the TLS Handshake protocol.
- 7. Define Firewall. What are the benefits of Firewall? List any two hardware and software firewall each.
- 8. Define virus and its types. What are the four phases of virus in network security?

Group - B

- 9. Answer all questions of the following :3×10 = 30
 - (a) What is Ransomware?
 - (b) Differentiate between symmetric key cryptography and asymmetric key cryptography.

- (c) What is Data Encapsulation in computer network?
- (d) Define Feistel Cipher.
- (e) What is Cryptanalysis?
- (f) Define Secure Electronic Transaction (SET)

 Protocol.
- (g) What is Simple Network Management Protocol (SNMP)?
- (h) What is Secure Socket Layer (SSL)?
- (i) Define IPCONFIG command.
- (i) Define Intrusion Prevention System (IPS).

