

BRAINWARE UNIVERSITY

Course – MCA

MIS and System Design (MCA-103)

(Semester - 1)

(belieuter 1)		
Time allotted: 3 Hours		Full Marks: 70
[The figure in the margin indicates full marks. Candidate their own words as far as pra	•	e their answers in
Group -A		
(Multiple Choice Typ	e Question)	
1. Choose the correct alternatives for the following:		$1\times10=10$
i) Spiral model is a method for software		
a) Documentation	b) testing	
c) Development	d) none of these	
ii) Which of the following is not a basis for classifying DS	SS?	
a) Degree of dependency		
b) Degree of non-procedurality		
c) Case based vs. population based	1	
d) Institutional vs. ad hoc		
iii) Which of the following is a characteristics of MIS?		
a) Management Oriented	b)Integrated	
c) Both (a) & (b)	d) None of these	
iv) Automated Teller Machine is a/an		
a) TPS	b) MIS	

c) Expert System

d) Office Automation System

v) The attribute AGE is calculated from Da	ATE_OF_BIRTH. The attribute AC	GE is
a) Single valued	b) Multi valued	
c) Composite	d) Derived	
vi) The entity relationship set is represente	ed in E-R diagram as	
a) Double diamonds	b) Undivided rectangles	
c) Dashed lines	d) Diamond	
vii) A computer communication technolog computer across short distance is	y that provides a way to interconne	ect multiple
a) LAN	b) MAN	
c) WAN	d) Wireless network	
viii) The internet is		
a) Network of networks	b) Web site	
c) Host	d) Server	
ix) Amazon.com comes under the following	g model	
a) B2B	b) B2C	
c) C2C	d) C2B	
x) World Wide Web uses pro	otocol.	
a) HTTP	b) HTTPS	
c) FTP	d) Both (a) and (b)	
	Group – B	
(Short A	Answer Type Question)	
Answer a	any three of the following.	$3 \times 5 = 15$
2) What is transaction? Explain briefly the	role of Transaction Processing Sys	stems (TPS)
in business process.		1 + 4

3) Explain SDLC and its various phases?	5
4) What is network topology? Write the types of network topology.	2+3
5) Explain Weak Entity Set with example.	5
6) What is MIS? In a business pyramid, identify and define the roles of various	ous Information
System in the bottom, middle, and top levels of the organization.	2+3
Group – C	
(Long Answer Type Question)	
Answer any three of the following.	$3\times15=45$
7) a) What is system? What are the different types of system?b) What is DFD? What are the different symbols used in it?c) What is an Expert System? Give an example	2+3 2+3 5
8) a) Describe the different model of E commerce b) Explain the limitations of Waterfall Model c) What is Virtual Office?	5 5 5
9) a) Differentiate Data vs Informationb) Write down types of Real Time Systemsc) Describe Database Anomalies with example	5 5 5
10) a) Explain Electronic Fund Transfer (EFT)b) Describe Three Schema architecture of DBMSc) Explain Super key with example	5 5 5
11) Write short notes on any three of the following a) Phishing b) Database Schema c) Hacking d) Traditional Waterfall Model e) Context Level Diagram	3 × 5