Hall Tick	cet No: Question Paper Code: 18ENG	P104								
MA	DANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE, MADANAPA	LLE								
	(UGC-AUTONOMOUS)									
ľ	VICA I Year I Semester (R18) Regular End Semester Examinations – Jan 2019 (Regulations: R18)									
	ENGLISH FOR COMMUNICATION									
Time	:: 3Hrs Max Marks	: 60								
	Attempt all the questions. All parts of the question must be answered in one place only. In Q.no 1 to 5 answer either Part-A or B only									
0 1(4)	Following contoness have some arrows. Pourwite them parrowthy	12M								
Q.1(A)	Following sentences have some errors. Rewrite them correctly. i) Jupiter is biggest than any other planet.	12IVI								
	ii) I shall post your letters while I go out.									
	iii) Here is the book who you were asking for.									
	iv) We had a distance view of Mt. Everest.									
	v) Both Supriya and Sharayu goes to school.									
	vi) Write a summary of the group discussion that take place yesterday.									
	vii) Is steel a alloy?									
	viii) Every poet cannot be the Tagore.									
	ix) I wish I could fly in a sky.									
	x) Rahul Dravid is one of the popular cricketer of all times.									
	xi) I and Justine went to see a movie.									
	xii) The post office seems to be quiet far.									
	OR									
Q.1(B)	Fill in the blanks with correct forms of the verbs given in the bracket below.	12M								
	i) Bheema to the college everyday (go: simple present).									
	ii) The visitors by the home team (beat: past perfect).									
	iii) Shailesh royal treatment wherever he goes (give: present									
	perfect).									
	iv) The boys football yesterday (play: past continuous).									
	v) She write the mail after lunch (simple future).									
	vi) There three crows on the tree branch (Simple past – "be" form).									
	vii) Rs. 20, 000 a month a good salary for a beginner (simple present – 'be' form).									
	viii) The boys table tennis (play: past continuous).									
	ix) The young children in this school Yoga classes twice a week (have:									
	simple present).									
	x) Either the boys or their parents' the report cards (collect: present perfect).									
	xi) Neither Rupali nor Vaishali attending the meeting (Simple									
	present – 'be' form).									
	xii) Roy and Lara the fair (go: simple present continuous with 'be' form).									
Q.2(A)	i) What is Communication Skills? "Having good English communication skills is	12M								
	important for your professional career", explain in your own words.									
	OR									
Q.2(B)	ii) For the smooth flow of communication, one has to follow a proper	12M								
, ,	procedure/process. Describe in detail the 'process of communication'.									
er-time to the total of the territory		STATE OF THE PARTY								

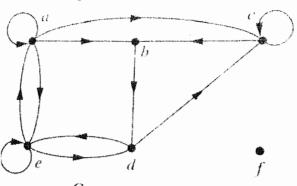
Q.3(A) i) "Listening is one of the significant traits of soft skills". Discuss this statement in 12M order to highlight the significance of listening skills. 12M Q.3(B)ii) What is written communication? Discuss its features at length. Q.4(A) i) What is oral presentation? What factors would you bear in mind to make an 12M effective oral presentation? OR Q.4(B) ii) Discuss in detail various ways/types of making presentations, like Video 12M conferencing, participation in meetings, chairing sessions etc. Q.5(A)i) Write a letter of application along with your resume based on the details given 12M below: Advertisement: Daljeet Industries limited need Sales Executives in their sales department. Candidates should be graduates and have at least seven years of experience in this field. Age should be around 35 years. Salary is negotiable. Write in confidence within fifteen days to the General Manager (Marketing) 51, Tolstoy Marg, New Delhi – 110003 Assume that you are Rajiv Gupta. You have a post-graduation in Sales Management Studies. You have worked as a Sales Executive in 'Lombard Sales Company' for 9 years. Now, you are looking for better working conditions and a better pay. You came across an advertisement in the Times of India for the post of Sales Executive in Daljeet Industries. Draft a letter along with your resume in response to the advertisement. OR

Q.5(B) ii) Explain in detail the various components involved in drafting a letter of application. 12M

*** END***

Hall Tick	et No: Course Code: 18MATP	101
MA	DANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE, MADANAPAI (UGC-AUTONOMOUS)	LLE
N	ACA I Year I Semester (R18) Regular End Semester Examinations – Jan 2019 (Regulations: R18)	
	DISCRETE MATHEMATICS	
Time	e: 3Hrs Max Marks:	60
	Attempt all the questions. All parts of the question must be answered in one place only. In Q.no 1 to 5 answer either Part-A or B only	***********
Q.1(A)	(i) How can this English sentence be translated into a logical expression? "You can access the Internet from campus only if you are a computer science major or you are not a freshman"	3M
	(ii) Let p,q,r be the propositions.p: You have the fluq: You miss the final examinationr: You pass the course	3M
	Express the following propositions as an English sentence $(p \land q) \lor (\neg q \land r)$	
	(iii) Use truth table to verify the distributive law $p \wedge (q \vee r) \equiv (p \wedge q) \vee (p \wedge r)$.	6M
Q.1(B)	(i) Obtain the principal conjunctive and disjunctive normal form of the following $(q\to p)\land (\neg p\land q)$	6M
	(ii) Show that $r \land (p \lor q)$ is a valid conclusion from the premises $p \lor q$,	6M
	$q \rightarrow r$, $p \rightarrow s$ and $\neg s$	STO Skuthe utiliseath kalmanasan o'n
Q.2(A)	(i) Let X={1,2,3,7} and R={(x,y)/x-y is divisible by 3}. Is R an equivalence relation? If so,Draw the graph of R	6M
	(ii) Let f,g,h are functions of real numbers, show that $(hog)of = ho(gof)$ where $h(x) = 6x - 3$, $g(x) = x^2 - 2$, $f(x) = 5$.	6M
	OR	
Q.2(B)	(i) Draw Hasse diagram representing the partial ordering $\{(a,b)/a \text{ divides } b\}$ on the set $X=\{1,2,3,4,6,8,12\}$ and also find the minimal, maximal members, least upper bound and greatest lower bound.	6M
	(ii) Which of these are POSETs ? Explain (a) $\langle \mathbb{R}, < \rangle$ (b) $\langle \mathbb{R}, = \rangle$ (c) $\langle \mathbb{Z}, \neq \rangle$	6M

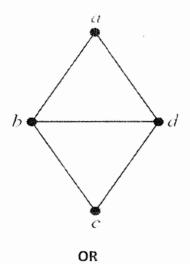
Q.3(A) (i) Find the in degree and out degree of each of the vertex in the below figure.



 $$\cal G$$ (ii) Find the chromatic number of the following graph

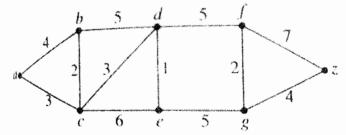


6M



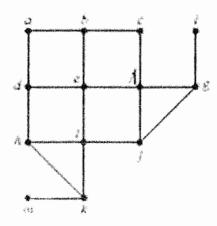
Q.3(B) (i) Use Dijkstra's algorithm to find the shortest path from vertex a to vertex z in the graph

6M



(ii) Find the minimum spanning tree of the following graph.

6M



Q.4(A) (i) Is (\mathbb{Z}, \mathbb{O}) and \oplus is mod 5 addition operation group?

(ii) What is the minimum number of students required in a class to be sure that at least six will receive the same grade, if there are five possible grades A,B,C,D,E and F. 6M 6M

OR

Q.4(B)(i) Prove that the set {0,1,2,3,4} is a finite abelian group of order 5 under addition modulo 5 as a composition.

6M

(ii) Find the solution to the recurrence relation $a_n = 6a_{n-1} - 11a_{n-2} + 6a_{n-3}$.

6M

 $a_0 = 2, a_1 = 5$ and $a_2 = 15...$

Q.5(A)(i) Find the hexadecimal expansion of (177130)₁₀

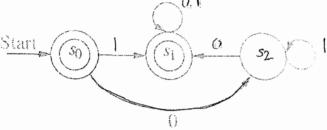
6M

(ii) What are the solutions of the linear congruence $3x \equiv 4 \pmod{7}$.

6M

OR

Q.5(B)(i) Find the language recognized by the given deterministic finite –state automation 6M



(ii) Construct the state diagram for the finite state machine with the following state table

6M

		f	٤	7
	In	put	In	out
State	0	1	0	1
s_0	s_0	s ₄	1	1
. s 1	s_0	s_3	0	1
s_2	s_0	s_2	0	0
s_3	s_1	s_1	1	1
. s ₄	s_1	s_0	1	0

*** END***

Hall Ticket No:									Question Paper Code: 18HUMP101
-----------------	--	--	--	--	--	--	--	--	--------------------------------

MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE, MADANAPALLE

(UGC-AUTONOMOUS)

MCA I Year I Semester (R18) Regular End Semester Examinations – Jan 2019 (Regulations: R18)

ACCOUNTING & FINANCIAL MANAGEMENT

		ACCO	UNTING & FINANCIAL	. MANAG	EMENT				
Time: 3	3Hrs				Max Marks	: 60			
<i>F</i>	Attempt all t	-	ons. All parts of the question In Q.no 1 to 5 answer either		•				
Q.1(A)	What is Book-Keeping? Explain the objectives of Book-keeping.								
			OR						
Q.1(B)	Explain the different categories in which the accounting transactions can be classified. Also state the rules of 'debit and credit' in this connection.								
Q.2(A)	Journalize the following transactions, post them in the Ledger and balance the accounts on 31st January. i. Ram started business with a capital of Rs. 10,000. ii. He purchased goods from Mohan on credit Rs. 2,000. iii. He paid cash to Mohan Rs. 1,000. iv. He sold goods to Suresh Rs. 2,000. v. He received cash from Suresh Rs. 3,000. vi. He further purchased goods from Mohan Rs. 2,000. viii. He paid cash to Mohan Rs. 1,000. viiii. He further sold goods to Suresh Rs. 2,000. ix. He received cash from Suresh Rs. 1,000.								
Q.2(B)	Explain the		Loss Account. What are the acc	counting entri	es used for preparing Profit	12M			
Q.3(A)	CONTRACTOR OF THE STATE OF THE	oreciation	? Explain straight line method a OR	nd diminishin	g value method of	12M			
Q.3(B)	Following a	re the det	ails regarding the receipts and i	ssues of mate	rial X in respect of a firm.	12M			
	Receipts:	Jan. 1 Jan. 5 Jan. 8 Jan. 15 Jan. 26	Balance 50 Units @ 4 per unit Purchase Order No. 10 Purchase Order No. 12 Purchase Order No. 11 Purchase Order No. 13		@ Rs. 3 per unit @ Rs. 4 per unit @ Rs. 5 per unit @ Rs. 3 per unit				
	Issues:	Jan. 10 Jan. 12 Jan. 20 Jan. 24 Jan. 31	Material Requisition No. 4 Material Requisition No. 5 Material Requisition No. 6 Material Requisition No. 7 Storage 5 Units	70 units 10 units 20 units 10 units					

The firm follows the perpetual inventory system for maintaining its stores records. You are required to calculate the value of inventory on Jan. 31 according to: (i) FIFO and (ii) LIFO.

Q.4(A)	What is fund flow statement? What are the steps used in preparation of fund flow statement?	12M
	OR	
Q.4(B)	What is cash flow? Explain the difference between fund flow and cash flow statement.	12M
Q.5(A)	 i. What are the different types of Profitability ratios? ii. Firm ABC & Co. have a Gross Profit ration of 20%. It has credit revenue of 10,00,000 and cash revenue is 20% of the total revenue. The indirect expenses of ABC & Co. added up to 1,50,000. Find the Net Profit ratio for the firm. OR 	12M
Q.5(B)	What is Du Pont Analysis? Explain uses of Du Pont Analysis.	12M
	*** FND***	

Hall Ticket No: Question Paper Code: 18MCA	l Ticket No:
--	--------------

MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE, MADANAPALLE

(UGC-AUTONOMOUS)

MCA I Year I Semester (R18) Regular End Semester Examinations – Jan 2019 (Regulations: R18)

COMPUTER ORGANIZATION AND ARCHITECTURE

Time:	3Hrs Max Marks	s: 60					
Attempt all the questions. All parts of the question must be answered in one place only. In Q.no 1 to 5 answer either Part-A or B only							
0.1(A)	Draw and avalain the functional units of a computer with a neat diagram	12M					
Q.1(A)	Draw and explain the functional units of a computer with a neat diagram.	12101					
	OR						
Q.1(B)	Differentiate between sequential and combinational circuits.	12M					
Q.2(A)	List different addressing modes and explain briefly.	12M					
	OR						
Q.2(B)	What is micro-programmed control unit? Draw and explain basic structure of micro-programmed control unit.	12M					
Q.3(A)	What is Hazard? Explain how the hazards are influence on the following:	12M					
	i) Instruction Set						
	ii) Data Path OR						
Q.3(B)	Define Exception and Explain the data hazards influence in exception handling.	12M					
Q.4(A)	Discuss associative mapping and direct mapping in organization of cache memory.	12M					
	OR						
Q.4(B)	List out secondary storage devices and explain each one briefly.	12M					
Q.5(A)	What is DMA? Explain the DMA transfer using neat diagram.	12M					
	OR						
Q.5(B)	Write short notes on the following standard I/O interfaces: (i) PCI ii) SCSI iii) USB	12M					

*** END***

Hall Ticket No:								Question Paper Code: 18MCAP102
-----------------	--	--	--	--	--	--	--	--------------------------------

MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE, MADANAPALLE

(UGC-AUTONOMOUS)

MCA I Year I Semester (R18) Regular End Semester Examinations – Jan 2019

(Regulations: R18)

PROBLEM SOLVING WITH PYTHON

Time:	3Hrs Max Marl	ks: 60
	Attempt all the questions. All parts of the question must be answered in one place only. In Q.no 1 to 5 answer either Part-A or B only	
Q.1(A)	Describe algorithm? Write an algorithm to generate Fibonacci sequence with a suitable explanation.	12M
	OR	
Q.1(B)	What are the problem-solving aspects? Explain in detail.	12M
Q.2(A)	Define identifier. Discuss rules to define it in python. Write short notes on logical operator and bitwise operator. OR	4M 8M
Q.2(B)	What is data type? Discuss different data types. What are the main features of Python? Explain in detail.	4M 8M
Q.3(A)	Write a password generator in Python. Be creative with how you generate passwords - strong passwords have a mix of lowercase letters, uppercase letters, numbers, and symbols. The passwords should be random, generating a new password every time the user asks for a new password	12M
	OR	
Q.3(B)	Write a program to check whether the given number is multiple of 2 or 5. What are different types of loops in python? Explain them.	4M 8M
Q.4(A)	Write a python script to multiply two matrices. What is list in python? Explain in detail. OR	6M 6M
Q.4(B)	What is dictionary in python? Explain in detail. What is tuple in Python? List out basic functions of tuple.	6M 6M
Q.5(A)	Explain packages using an example program. OR	12M
Q.5(B)	What is file handling? Explain the related functions.	12M
	*** END***	