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End Sem(IV) — IT (SEC - 2)

2022

Time: 3 hours

Full Marks : 75

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 (Compulsory)

1. Choose the correct answer of the following:

 $1 \times 10 = 10$

- (a) MATLAB stands for:
 - (i) Math Laboratory
 - (ii) Matrix Laboratory
 - (iii) Math works
 - (iv) None of these
- (b) MATLAB command that clears all data and variables stored in the memory:
 - (i) CLS
- (ii) Clear
- (iii) Delete
- (iv) None of these

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(Turn over)

(c) To print a newline in a fprintf statement				the			
	esca	pe sequ	ence cl	naract	ter use	ed is:	
	(i) \	t		(ii)	\ nl		
	(iii) \	'n		(iv)	\ nxt		
(d)	To ac	dd a con	nment t	o the	mfile t	he MAT	LAB
NS SG#	comi	mand is	•		The state of		
	(i)	%					
	(iii)	Comme	nt (' ')	(iv)	&		
(e)	То јо	oin one	or mo	re str	rings	into a s	ingle
	strin	g is kno	wn as :				
	(i)	Concat	enation				
	(ii)	Joining					
	(iii)	String o	onvers	ion			
	(iv)	All of th	ese				
(f)	With	n fprintf	comm	nand	the %	g is us	sed as
	the:						
	(i)	Single	charac	ter di	splay		
	(ii)	Fixed p	ooint di	splay		i. Tan	
	(iii)	String	notatio	n disp	olay		
	(iv)	Defaul	t numb	er dis	splay		
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				*		8	

	(9) WI wh	nich of the	se is not a	n aspect of a for /
		·(i)	Update	(ii)	Initialization
		(iii)	Runner	(iv)	Condition
	(h)	In I	MATLAB, ke next iterati	eyword imn	nediately moves to op is :
		(i)	update	(ii)	go to
		(iii)	continue	(iv)	break
	(i)	The	operator	used to se	e if two elements
		are	equal in M	ATLAB is :	
		(i)	! =	(ii)	==
		(iii)	is equal	(iv)	=
*	(j)	Inde	ex of an arra	ay in MATL	AB start with :
		(i)	0	(ii)	1
		(iii)	Depends of	on the class	s of array
		(iv)	Unknown	Part for	
2.	Exp	olain t	he MATLA	Benvironm	nent in detail. 5
			Gre	oup – B	
	Ans	wera	any four qu	estions of t	he following:
					15×4 = 60
3.	(a)		te down t	he import	ant features of
	(b)	Write	e a program	in MATLA	3 to plot a graphics
**		70:20			en 1 to 100.
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- 4. (a) What are the basic graph plots used in MATLAB?
 - (b) Explain about different operators used in MATLAB.
- (a) Write a program in MATLAB to check a year is leap year or not.
 - (b) Explain about different constants used in MATLAB.
- 6. (a) What are the basic functions used in MATLAB?
 - (b) Create a user define function to check a number is prime or not.
- 7. (a) What are the different control statements used in MATLAB? Explain with example.
 - (b) Write a function in MATLAB to find the factorial of a given number.
- 8. (a) What do you mean by array? Explain it with context to MATLAB with example.
 - (b) Write a program in MATLAB to create one dimensional array to store 10 elements and store it in descending order.

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