

BRAINWARE UNIVERSITY

Term End Examination 2020 - 21

Programme – Bachelor of Technology in Computer Science & Engineering

Course Name – IT Workshop Course Code - PCC-CS302

Semester / Year - Semester III

Time allotted: 85 Minutes

Full Marks: 70

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.]

Group-A

Group-	A	
(Multiple Choice	e Type Question)	1 x 70=70
1. (Answer any Seventy)		
(i) Find the error returned by MATLAB: syms ([x,y], (2,3,4))	$a \times y; a = x^2 + y^2; subs(a)$,
a) There is no subs command in MATLAB	b) The subs command has	s syntactical error
c) The subs command has extra input arguments	d) The subs command has arguments	s incorrect
(ii) We can generate the summation of a series	, formed with a character, t	ısing
a) symsum	b) sum	
c) symssum	d) int	
(iii) To calculate the sum of only absolute varia	bles in a series, we use	
a) sum(abs())	b) abssum()	
c) sumabs()	d) abs(sum())	
(iv) We can find the summation of an A.G.P. se	eries using	
a) sum()	b) symsum()	
c) Depends on the series	d) Cannot be done	
(v) What is the output of the following code? m	ean(1:10)	

a) Syntactical Error	0) 4.3
c) 5.5	d) Parse Error
(vi) Command used to display the value	e of variable x
a) displayx	b) disp(x)
c) ctrl+v	d) ctrl+b
(vii) Which is the invalid variable name	e in MATLAB?
a) x6	b) last
c) 6x	d) Z
(viii) What are the characters in MATL memory?	AB are represented in their value in
a) Decimal	b) ASCII
c) Hex	d) String
(ix) What would be the output of the for 1 0 0] B = [1 ;2 ;3 ;4] C=A*B	ollowing code (in editor window)? A = [1
a) 0	b) [1 0 0 0]
c) 3	d) [1 2 0 0]
(x) This MATLAB command clears all	data and variables stored in memory
a) clc	b) clear
c) delete	d) deallocate
(xi) What would be the output of the for [1 0 2]; b = [3 0 7]; c=a.*b;	ollowing code (in editor window)? A =
a) [2 0 21]	b) [3 0 14]
c) [14 0 3]	d) [14 0 5]

(xii) What would be the output of the following code (in editor window)? a=1:5

C-a. 2	
a) [1 2 5]	b) [1 2 3 4 5]
c) [25 16 9 4 1]	d) [1 4 9 16 25]
(xiii) Compute 24 modulo 5. $b = mod(24,5)$	
a) 3	b) 6
c) 4	d) 5
(xiv) What is the output of the following code? and end	for i=1:4 for j=1:4 a=5;a=a+5;
a) No output	b) 10
c) 1	d) Error
(xv) Which of the following method is employ inear equations?	ed for solving the system of
a) Runge Kutta	b) Newton Raphson
c) Gauss Seidal	d) Simpson's Rule
(xvi) What value does the variable q contain at executes? $a = [135]$; $q = a.*a$; $q = q + 2$;	ter the MATLAB code below
a) [3 11 27]	b) Nothing - operation is not possible
c) [1 3 5]	d) [3 5 7]
xvii)	
AVII)	
What is the condition applied in factorization r	nethod?
a)	b)
Matrix should not be singular	Back substitution should be done
c)	d)

There must exist a diagonal matrix form of All principal minors of the matrix should be

(xviii) Which of the following MATLAB calculations would result the value 1?

a) 1+4/5

b) 6/2*3

c) $3^3*2/3$

d) None of these

(xix) Is histogram a kind of multiple plots?

a) true

b) false

c) Cannot determine

d) None of these

(xx) What is the error in the code? a=[[1;2];(2,3)]

a) Third brackets are wrong

b) The semicolon within the second third

brackets

c) There is no error

d) Error: Expression or statement is incorrect—possibly unbalanced

(xxi) What is the limitation of Gauss-seidal method?

a) It cannot be used for the matrices with

b) It is more complex than Jacobi's method

non-zero diagonal elements

c) It doesn't guarantees convergence for

each and every matrix

d) It is an iterative technique

(xxii) The difference between a function and a script is:

a) Only a function file can be run from the command line

b) Only a script file can perform a series of commands

c) Only a function requires inputs

d) Function variable names only have meaning within the function, whereas script variables are available to other programs

(xxiii) MATLAB API means:

a) Application Program Interface

b) Application Process Interconnected

c) Advance Program Internet

d) Advanced process Interface

(xxiv) What are the types of loops does MATI	LAB provides?
a) While loop	b) For loop
c) Not Supported	d) Both While loop and For loop
(xxv) FEM in MATLAB	
a) Finite element Modeling	b) Final element MATLAB
c) Finite element MATLAB	d) Both Final element MATLAB and Finite element MATLAB
(xxvi) Which Graphic System is used in MAT	ГLАВ
a) High level and low level commands	b) Only High level command
c) Low level command	d) None of these
(xxvii) The LU method of factorization was in mathematician	atroduced by the
a) Alan Tango	b) David Hilbert
c) G. W. Leibniz	d) Alex Grothendieck
(xxviii) V=log(1) in MATLAB	
a) 0	b) 1
c) Error	d) 4
(xxix) Which of the following step is not invo	lved in the factorization process?
a) converting the given system to matrix form	b) the matrix is decomposed into the product of lower and upper triangular matrix
c) finding the unknowns using matrix multiplication	d) elimination of unknowns using back substitution
(xxx) A=1:6	
a) 1 2 3 4 5 6	b) 2 3 4 5