

**ASUTOSH COLLEGE**  
**(Affiliated to University of Calcutta)**

*Semester-IV Examination, 2021*

*Electronics – Honours*

*Paper – SEC-2-B-2 (Internal)*

*Full Marks – 10*

*Time – 30 Minutes*

*Answer any ten questions:*

***1 X 10 = 10***

1. Command line in MATLAB begin with

- i) %
- ii) //
- iii) \*/

2. The result of *floor*(-9/2) will be

- i) -3
- ii) -2
- iii) -2.25

3. Similarity between *who* and *whos* command

- i) size
- ii) currently variables in memory
- iii) class

4. The result of *zeros*(2,2)\**ones*(2,2) is

- i)  $\begin{bmatrix} 1 & 1 \\ 1 & 1 \end{bmatrix}$
- ii)  $\begin{bmatrix} 0 & 0 \\ 0 & 0 \end{bmatrix}$
- iii)  $\begin{bmatrix} 4 & 4 \\ 4 & 4 \end{bmatrix}$

5. *length*() and *size*() applicable to

- i) matrix and vector
- ii) vector and matrix
- iii) matrix and matrix

6. Element by element operation is done by

- i) Comma(,) operator
- ii) dot(.) operator
- iii) semicolon(:) operator

7. The command for random number generator between a and b

- i) (b-a)\**rand*+a
- ii) (a-b)\**rand*+b
- iii) (b-a)\**rand*+(a+b)

8. Script file is

- i) a list of MATLAB command
- ii) a program saved in a file
- iii) both (i) and (ii)

9. The formatted output possible by

- i) *disp* command
- ii) *fprintf* command
- iii) *printf* command

10. MATLAB can not read

- i) .dat, .xlsx, .txt file
- ii) .mat, .txt, .m files
- iii) .dat, .mat, .docx

11.  $a=1:1:10$   
 $b=2:5:20$   
*plot(a,b)* is

- i) possible
- ii) NOT possible
- iii) Sometimes possible

12. *for*  $k=1:3:10$   
 $x=k^2;$   
*end*

How many numbers will display

- i) 6
- ii) 4
- iii) 2

13. Matlab is

- i) open source
- ii) NOT open source
- iii) none of (i) and (ii)

14. Open source mathematical operation software

- i) matlab
- ii) Octave
- iii) Scilab

15. Command for version of Matlab`

- i) Ver
- ii) Vers
- iii) Versi