

**Institute for Excellence in Higher Education, Bhopal (M.P.)**  
**Department of Mathematics**  
**B.Sc. III Year (SEM-V)**  
**Questions Bank**  
**on**  
**MATLAB: Basics and Applications**  
**(SEC/Vocational)**  
**Multiple Choice Type Questions**





40. What would be the output of the following code (in editor window)?  
 $A = [1 \ 0 \ 2]; \ b = [3 \ 0 \ 7]; \ c = a.*b;$   
 (a) [2 0 21] (b) [7 0 3]  
 (c) [14 0 3] (d) [3 0 14]
41. Which of the following commands is used to calculate the square root of a number in MATLAB?  
 (a) **sqrt** (b) **root**  
 (c) power (d) exp
42. What is the default extension of a MATLAB script file?  
 (a) .mat (b) **.m**  
 (c) .md (d) .txt
43. Which of the following commands is used to generate a random integer between two specified values in MATLAB?  
 (a) rand (b) randn  
 (c) **randi** (d) random
44. What is the result of the following expression in MATLAB:  $3 + 5 * 2$   
 (a) 16 (b) 13  
 (c) 11 (d) **15**
45. To determine whether an input is MATLAB keyword, command is?  
 (a) **iskeyword** (b) key word  
 (c) inputword (d) isvarname
46. If one operand is a scalar and the other is not, then MATLAB applies the scalar to every element of the other operand. This property is known as .....  
 (a) operand divergence (b) **scalar expansion**  
 (c) vector expansion (d) dimension declaration
47. Command is used to save command window text to file.  
 (a) saveas (b) texttofile  
 (c) **diary** (d) todairy
48. What would be the output of the following code (in editor window)?  
 $a=1:5; \ c=a.^2$   
 (a) [1 25] (b) [1 2 3 4 5]  
 (c) [25 16 9 4 1] (d) [1 **4 9 16 25**]
49. What is the basic difference between M-files and MAT-files?  
 (a) **MAT files are binary data files while m-files are ASCII text files**  
 (b) There is no difference  
 (c) M files are binary data files while MAT-files are ASCII text files  
 (d) There is no such thing as MAT files
50. How do you create a function file in MATLAB?  
 (a) Begin script file with function definition  
 (b) **Begin m-file with function definition**  
 (c) There is no such thing called function file  
 (d) An m-file is only a function file

## **Answer Key**

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|---------|---------|---------|---------|---------|
| 1. (a)  | 2. (b)  | 3. (c)  | 4. (d)  | 5. (a)  |
| 6. (b)  | 7. (c)  | 8. (d)  | 9. (a)  | 10. (b) |
| 11. (c) | 12. (d) | 13. (a) | 14. (b) | 15. (c) |
| 16. (d) | 17. (a) | 18. (b) | 19. (c) | 20. (d) |
| 21. (a) | 22. (b) | 23. (c) | 24. (d) | 25. (a) |
| 26. (b) | 27. (c) | 28. (d) | 29. (a) | 30. (b) |
| 31. (c) | 32. (d) | 33. (a) | 34. (b) | 35. (c) |
| 36. (d) | 37. (a) | 38. (b) | 39. (c) | 40. (d) |
| 41. (a) | 42. (b) | 43. (c) | 44. (d) | 45. (a) |
| 46. (b) | 47. (c) | 48. (d) | 49. (a) | 50. (b) |