

JK Lakshmipat University, Jaipur

Institute of Engineering and Technology

End Term Examination

B.Tech. (EE)-V Semester-2013

Course Name: Matlab Programming

Max marks: 40

Course Code: EE 503

Time: 03 Hr

Instructions to the candidate:

1. Section A and Section C is a compulsory question.
2. Attempt any two questions from Section B
3. All parts of same question must be attempted in continuity.

Section A

Q(1.) Write the description for following terms

- | | |
|----------------|------|
| (a) who | [01] |
| (b) ans | [01] |
| (c) linspace | [01] |
| (d) length | [01] |
| (e) Clear(all) | [01] |
| (f) .. | [01] |
| (g) ... | [01] |
| (h) Isreal(A) | [01] |
| (i) return | [01] |
| (j) legend | [01] |

Section B

Q(2.) (a) Write MATLAB statement for obtaining a vector where the elements are formed using [05]

$$y = x \cos(x) - \frac{\sin(x)}{4 + \cos(x)}$$

where x has been defined as $x = (0 : .01 : 6) ?$

(b) Examine the following MATLAB code. What is the value of B at the end of the program: [02]

```
A=2;
for ii=0:2:4
    A=[A, A*ii];
end
B=A
```

- | | |
|----------------------|------------------|
| a) 2,0,0,0 | b) 2 20 200 2000 |
| c) 2 04080160 | d) 2 248 |
| e) None of the above | |

(c) Given the following matrix, show the results generated by these MATLAB commands. [02]

$v = [3.7 \ 2.4 \ 0.3 \ 5.2 \ 4.8]$

- (a) $h = \text{find}(v > 3.5)$
 (b) $\text{high} = v(h)$

