Part I. Short answers.

1. If \( a=\{8, 2, -6, 14, 3\} \) then \((a>5) \) returns ______________.

2. If \( A \) is a 5x6x3 matrix, then \( \text{ndims}(A) \) returns ________________.

3. \( \text{ndims(ones(1,4,3,2))} = \) __________.

4. \( \text{class('abc')} = \) ________________.

5. Let \( h=\text{inline('x^2-2\times x+1')} \) then \( h(3) \) returns _____________.

6. An anonymous function based on \( \cos(x^2)-\sin(3x) \) can be defined as _________________________.

Part II. Short answers. Let \( a = [2, 4, 3; 4, 3, 0; 3, 1, 2] \).

7. \( a(\text{end}–1, 2:\text{end}) \) returns: ____________________________.

8. \( (\text{mod(a,3)} == 0) \) returns: ________________________________.

9. If \( a=[3, -1, 0, 12, 8, 4, 9] \) and \([m,n]=\text{min(a)}\), then \([m,n]= \) ________________.

10. If \( a=[3.2, 5.6, 8.2, 7.85, 11.4] \), then \( \text{round(a)} \) returns ________________.

11. \( a(:, 2:3)=[] \) returns: ________________________________.

Part III. Short answers.

Given, \( a=3, b=2, c=0, d='h', \) and \( e='\text{ascii}' \). Answer the following questions:

12. \( e>d = \) ____________________________.

13. \( (b\&c)< a = \) ____________________________.

14. \( \text{ischar(int2str(a+'a'))} = \) ____________________________.

15. \( \text{isinf}(d/(b-2)) = \) ____________________________.
16. \( \sim (e \geq d) = \) ________________.

**Part IV. Exercises.**

17. For the function \( q_{17} \) defined in the left box, what will the output in the command window be?

Output 1:

```
function \( q_{17}(v) \)
    rt=1;
    for i=1:2:length(v)
        rt=rt*v(i);
    end
end
```

Output 2:

```
disp(rt)
```

Output 1:

\( \text{Output 1) \quad \text{q}_{17}(a) } \)

\( \text{Output 2) \quad \text{q}_{17}(a.^2) } \)

18. Given the following function \( q_{32} \), what will the outputs in the command window be?

Output 1: (5 points)

```
function \( q_{32} \)
    varargin=\( q_{32}(\text{varargin}) \)
    disp(nargin);
    disp(nargout);
end
```

Output 1:

\( \text{Output 1) \quad [x,y,z]=q_{32}(a,b,c,d) } \)

19. Given the following function \( q_{35} \), what will the outputs in the command window be?

Output 1: (2 points)

```
function \( \text{cnt} = q_{19}(n,z) \)
    disp(n)
    if nargin==1
        cnt=0;
    else
        cnt=z;
    end
    if n>=1
        cnt=cnt+n;
    else
        cnt = cnt-n;
    end
    disp(cnt)
end
```

Output 1:

\( \text{Output 1) \quad p=q_{19}(3) } \)

\( \text{Output 2) \quad p=q_{19}(-2,p) \quad \text{q}_{19}(5,p) } \)

\( \text{Output 2) \quad q_{19}(5,p) } \)