

UGC NET Examination Response Paper

Subject: N/A

Test Date: N/A

Document: Official Response Sheet

Test Time: N/A

Q. 1

Question ID: 630680203598

Status: Answered | Chosen Option: D



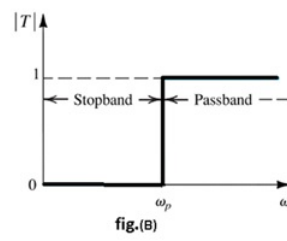
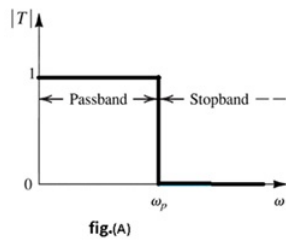
- ✗
- ✗
- ✗
- ✓
- ✗
- ✗
- ✓
- ✗

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|------------------------------|------------------------------|------------------------------|------------------------------|
| Option 1 ID:<br>630680789592 | Option 2 ID:<br>630680789593 | Option 3 ID:<br>630680789591 | Option 4 ID:<br>630680789594 |
|------------------------------|------------------------------|------------------------------|------------------------------|

Q. 3

Question ID: 630680311141

Status: Answered | Chosen Option: C



✗

✓

✗

✗

✗

✗

✗

✓

$$L = \frac{q}{m}$$

✗

$$L = \frac{q}{2 \times m}$$

✗

$$L = \frac{m}{q}$$

✗

$$L = 2 \times \frac{m}{q}$$

✓

Option 1 ID:  
6306801210677

Option 2 ID:  
6306801210678

Option 3 ID:  
6306801210680

Option 4 ID:  
6306801210679

Q. 6

Question ID: 630680218696

Status: Answered | Chosen Option: D

LEDs are connected to bits P1 and P2. The following 8051 C program shows the count in LED from \_\_\_\_\_.

```
#include <reg51.h>
#define LED P2;
void main(void)
{
    P1=00; //clear P1
    LED=0; //clear P2
    for (;;) //repeat forever
    {
        P1++; //increment P1
        LED++; //increment P2
    }
}
```



Option 1 ID:  
630680848694

Option 2 ID:  
630680848692

Option 3 ID:  
630680848693

Option 4 ID:  
630680848691

Q. 10

Question ID: 630680201329

Status: Answered | Chosen Option: D

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| Option 1 ID:<br>630680780664 | Option 2 ID:<br>630680780666 | Option 3 ID:<br>630680780663 | Option 4 ID:<br>630680780665 |
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Q. 14

Question ID: 630680205098

Status: Answered | Chosen Option: C

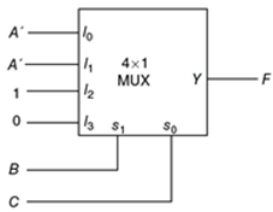
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| Option 1 ID:<br>630680795257 | Option 2 ID:<br>630680795256 | Option 3 ID:<br>630680795255 | Option 4 ID:<br>630680795258 |
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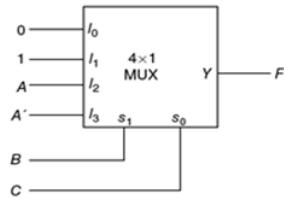
Q. 17

Question ID: 630680388666

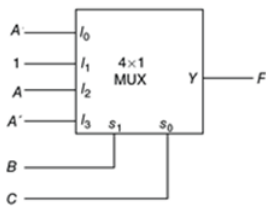
Status: Answered | Chosen Option: D



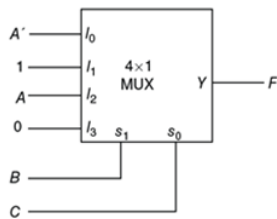
✗



✓



✗



✗

✗

✓

✗

✗

Option 1 ID:  
6306801515128

Option 2 ID:  
6306801515129

Option 3 ID:  
6306801515126

Option 4 ID:  
6306801515127

Q. 19

Question ID: 630680203590

Status: Answered | Chosen Option: B

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| Option 1 ID:<br>630680789560 | Option 2 ID:<br>630680789561 | Option 3 ID:<br>630680789562 | Option 4 ID:<br>630680789559 |
|------------------------------|------------------------------|------------------------------|------------------------------|

Q. 23

Question ID: 630680338674

Status: Answered | Chosen Option: C

- ✓
- ✗
- ✗
- ✗
- ✗
- ✗
- ✓
- ✗
- ✗
- ✗
- ✗
- ✓
- ✓
- ✗
- ✗
- ✗

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| Option 1 ID:<br>6306801317350 | Option 2 ID:<br>6306801317351 | Option 3 ID:<br>6306801317349 | Option 4 ID:<br>6306801317352 |
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Q. 27

Question ID: 630680205099

Status: Answered | Chosen Option: D

- ☐
- ☐
- ☐
- ☒
- ☐
- ☐
- ☐
- ☒

| Signal          | Laplace of the signal |
|-----------------|-----------------------|
| 1) $\delta(t)$  | a) $\frac{1}{s-a}$    |
| 2) $u(t)$       | b) 1                  |
| 3) $r(t)$       | c) $\frac{1}{s}$      |
| 4) $e^{at}u(t)$ | d) $\frac{1}{s^2}$    |

- ☐
- ☐
- ☒
- ☐
- ☒
- ☐
- ☐
- ☐

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|------------------------------|------------------------------|------------------------------|------------------------------|
| Option 1 ID:<br>630680795259 | Option 2 ID:<br>630680795261 | Option 3 ID:<br>630680795260 | Option 4 ID:<br>630680795262 |
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Q. 31

Question ID: 630680213854

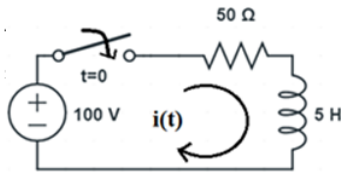
Status: Answered | Chosen Option: D

✗

✗

✗

✓



$$i = 2 * (1 - e^{-t/10})$$

✗

$$i = 20 * (1 - e^{-t/10})$$

✗

$$i = 2 * (1 - e^{-10t})$$

✓

$$i = 20 * (1 - e^{-10t})$$

✗

$$\frac{k}{s^3}$$

✗

$$1$$

✗

$$\frac{k}{s}$$

✗

$$\frac{k}{s^2}$$

✓

Option 1 ID:  
630680829463

Option 2 ID:  
630680829464

Option 3 ID:  
630680829466

Option 4 ID:  
630680829465

Q. 34

Question ID: 630680333657

Status: Answered | Chosen Option: C

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| Option 1 ID:<br>6306801297904 | Option 2 ID:<br>6306801297902 | Option 3 ID:<br>6306801297903 | Option 4 ID:<br>6306801297901 |
|-------------------------------|-------------------------------|-------------------------------|-------------------------------|

Q. 38

Question ID: 630680212651

Status: Answered | Chosen Option: C

- ✓
- ✗
- ✗
- ✗
- ✓
- ✗
- ✗
- ✗
- ✗
- ✗
- ✓
- ✗
- ✗
- ✗
- ✗
- ✓
- ✓
- ✗
- ✗
- ✗

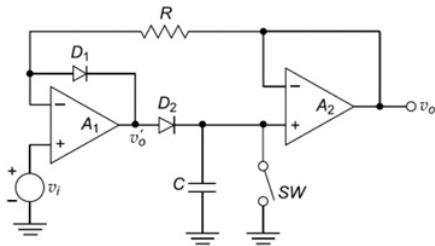
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|------------------------------|------------------------------|------------------------------|------------------------------|
| Option 1 ID:<br>630680824746 | Option 2 ID:<br>630680824743 | Option 3 ID:<br>630680824745 | Option 4 ID:<br>630680824744 |
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Q. 43

Question ID: 630680333650

Status: Answered | Chosen Option: B

✗  
✗  
✓  
✗  
✗  
✗  
✓  
✗



✗  
✓  
✗  
✗

Option 1 ID:  
6306801297875

Option 2 ID:  
6306801297874

Option 3 ID:  
6306801297873

Option 4 ID:  
6306801297876

Q. 46

Question ID: 630680194479

Status: Answered | Chosen Option: A

For a unity feedback system, the forward path transfer function  $G(s)$   
 $= \frac{20}{s(s+2)(s^2+2s+20)}$ . The position error coefficient is \_\_\_\_\_.



Option 1 ID:  
630680754451

Option 2 ID:  
630680754450

Option 3 ID:  
630680754449

Option 4 ID:  
630680754452

Q. 50

Question ID: 630680388645

Status: Answered | Chosen Option: B

A.0=0 and A+1=1



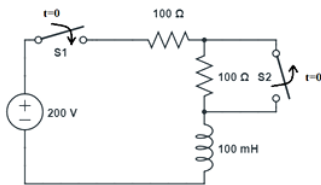
A. $\bar{A}$  = 1 and A+ $\bar{A}$  = 1



A+A=A and A+0=A



A.A=A and A+A=A



$$\frac{1}{79}$$



$$\frac{79}{80}$$



$$\frac{80}{79}$$



$$\frac{1}{80}$$



Option 1 ID:  
6306801515044

Option 2 ID:  
6306801515043

Option 3 ID:  
6306801515045

Option 4 ID:  
6306801515042

Q. 53

Question ID: 630680213234

Status: Answered | Chosen Option: C

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| Option 1 ID:<br>630680826985 | Option 2 ID:<br>630680826983 | Option 3 ID:<br>630680826984 | Option 4 ID:<br>630680826986 |
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Q. 57

Question ID: 630680201525

Status: Answered | Chosen Option: A

- ☐
- ☒
- ☐
- ☐
- ☐
- ☐
- ☒
- ☐
- ☐
- ☐
- ☒
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- ☒
- ☒
- ☐
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- ☐

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| Option 1 ID:<br>630680781450 | Option 2 ID:<br>630680781447 | Option 3 ID:<br>630680781448 | Option 4 ID:<br>630680781449 |
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Q. 62

Question ID: 630680213236

Status: Answered | Chosen Option: A



$$\frac{dy(t)}{dt} + 2y(t) = \frac{dx(t)}{dt} + x(t), \text{ given that } x(0) = y(0) = 0$$

$$\frac{s+2}{s+1}$$



$$\frac{s+1}{s+2}$$



$$\frac{s+1}{s}$$



$$\frac{s-1}{s-2}$$



Option 1 ID:  
630680826994

Option 2 ID:  
630680826993

Option 3 ID:  
630680826992

Option 4 ID:  
630680826991

Q. 66

Question ID: 630680205110

Status: Answered | Chosen Option: A

- ✓
- ✗
- ✗
- ✗
- ✓
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- ✗
- ✗
- ✗
- ✗
- ✗
- ✓
- ✓
- ✗
- ✗
- ✗

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| Option 1 ID:<br>630680795306 | Option 2 ID:<br>630680795305 | Option 3 ID:<br>630680795303 | Option 4 ID:<br>630680795304 |
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Q. 70

Question ID: 630680333740

Status: Answered | Chosen Option: D



A system with an open-loop transfer function is  $\frac{k(s-1)}{s(s+1)(s-3)}$ . Which of the following options is correct about this system?



2\*Rb



Rb



4\*Rb



Rb/2



Option 1 ID:  
6306801298233

Option 2 ID:  
6306801298234

Option 3 ID:  
6306801298236

Option 4 ID:  
6306801298235

Q. 74

Question ID: 630680333572

Status: Answered | Chosen Option: B



Find the output Y of the given circuit.



Option 1 ID:  
6306801297563

Option 2 ID:  
6306801297561

Option 3 ID:  
6306801297564

Option 4 ID:  
6306801297562

Q. 78

Question ID: 630680612220

Status: Answered | Chosen Option: D



If  $(x^2 + y^2 + z^2) = 276$  and  $(xy + yz + zx) = 24$ , then what is the positive value of  $(x + y + z)$ ?



Option 1 ID:  
6306802395614

Option 2 ID:  
6306802395613

Option 3 ID:  
6306802395615

Option 4 ID:  
6306802395612

Q. 82

Question ID: 630680404183

Status: Answered | Chosen Option: A

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| Option 1 ID:<br>6306801576245 | Option 2 ID:<br>6306801576244 | Option 3 ID:<br>6306801576243 | Option 4 ID:<br>6306801576242 |
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Q. 87

Question ID: 6306807987

Status: Answered | Chosen Option: B

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| Option 1 ID:<br>6306803129 | Option 2 ID:<br>6306803129 | Option 3 ID:<br>6306803129 | Option 4 ID:<br>6306803129 |
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Q. 90

Question ID: 630680796432

Status: Answered | Chosen Option: D

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| Option 1 ID:<br>6306803120718 | Option 2 ID:<br>6306803120716 | Option 3 ID:<br>6306803120717 | Option 4 ID:<br>6306803120719 |
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Q. 94

Question ID: 630680996659

Status: Answered | Chosen Option: D

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| Option 1 ID:<br>6306803910369 | Option 2 ID:<br>6306803910371 | Option 3 ID:<br>6306803910368 | Option 4 ID:<br>6306803910370 |
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Q. 98

Question ID: 630680945851

Status: Answered | Chosen Option: A

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| Option 1 ID:<br>6306803708159 | Option 2 ID:<br>6306803708160 | Option 3 ID:<br>6306803708158 | Option 4 ID:<br>6306803708161 |
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