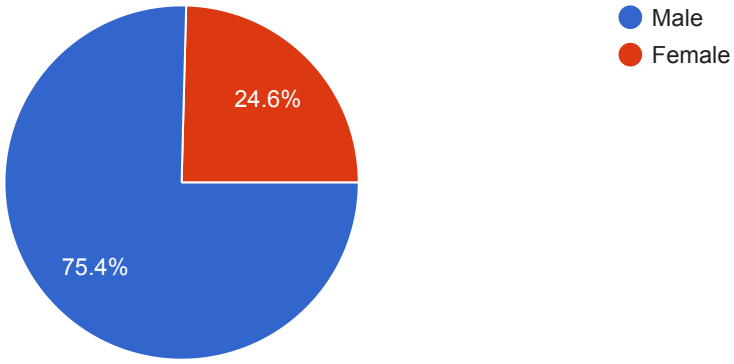
Gender

Copy

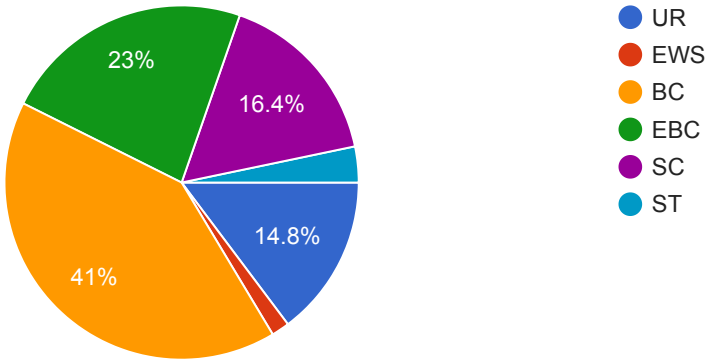
61 responses



Category

Copy

61 responses

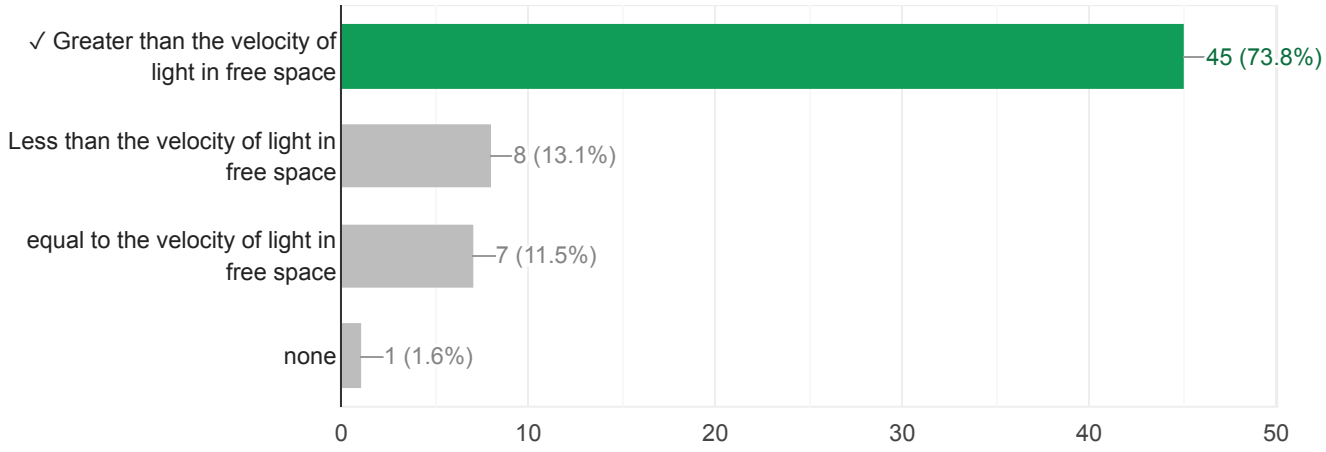


Online Test for Guest Lecturer (Electronics Engineering)

The phase velocity of waves propagating in a hollow metal waveguide is

Copy

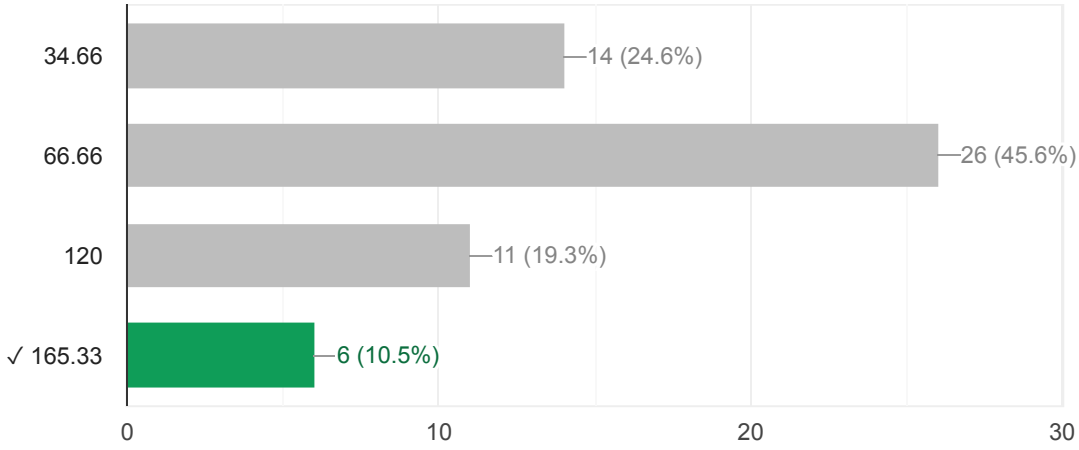
45 / 61 correct responses



In the given below waveform, find energy in (joule)

Copy

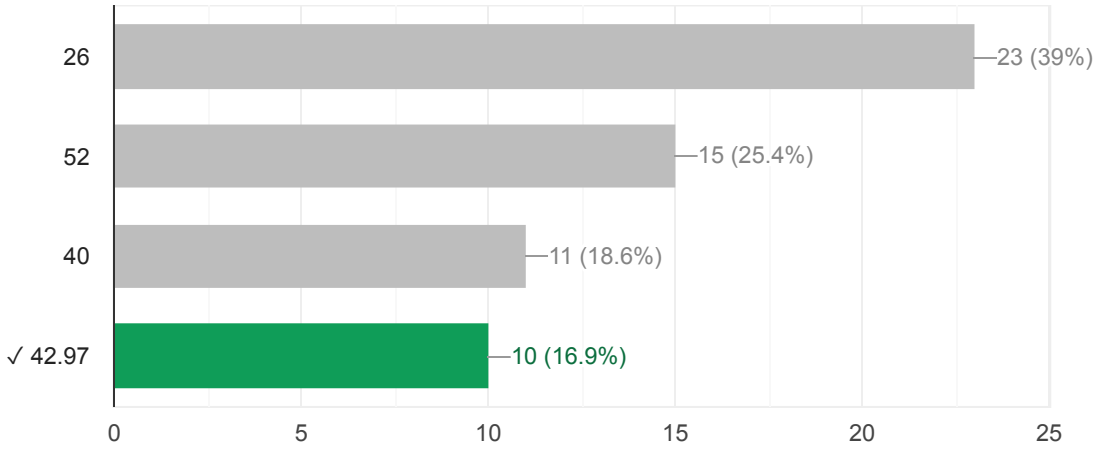
6 / 57 correct responses



If x(t) = 4 cos (2t - pi/4) + 6 Sin (2t), Find Power of the given equation in watt is

Copy

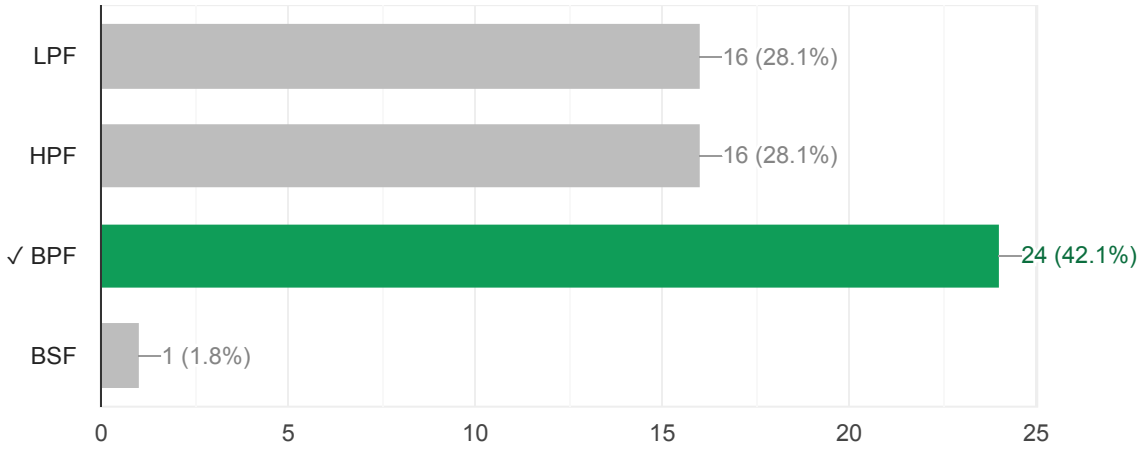
10 / 59 correct responses



An FIR Filter given equation is y[n] = 5 x[n] - 5 x[n-2]. The filter can be used to a

Copy

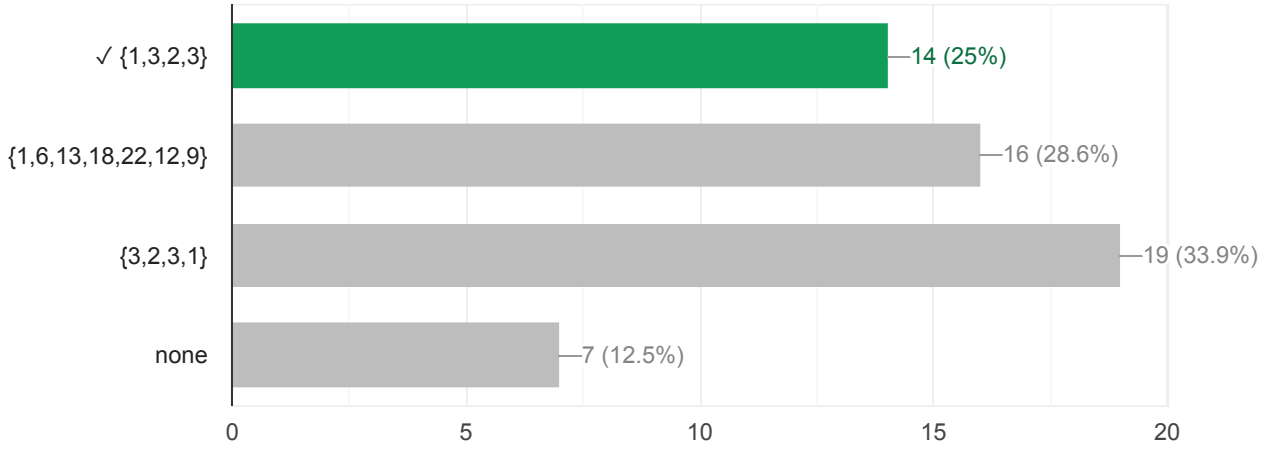
24 / 57 correct responses



If x[n] = {1,3,2,3}; then find the value of [DFT{DFT x[n]}] is (N=4)

Copy

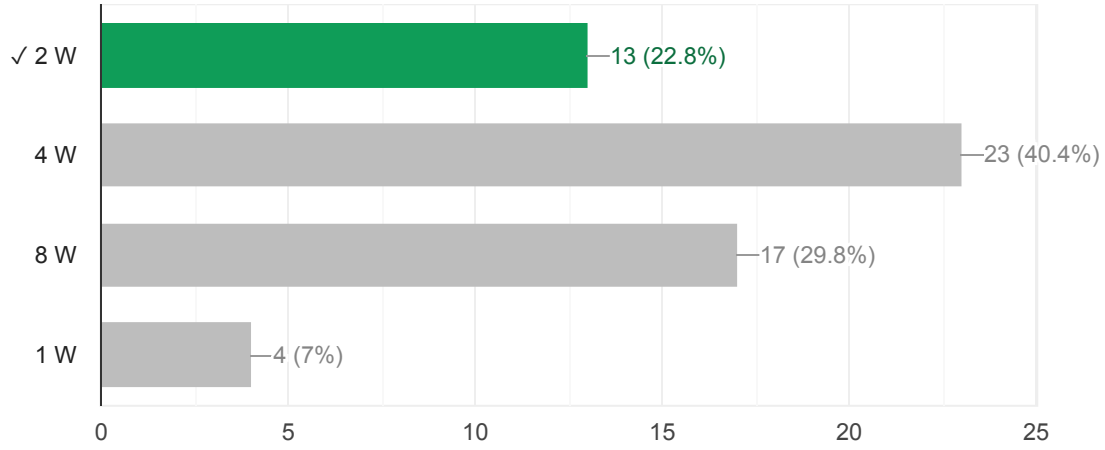
14 / 56 correct responses



Find Power in the given periodic wave form as shown below

Copy

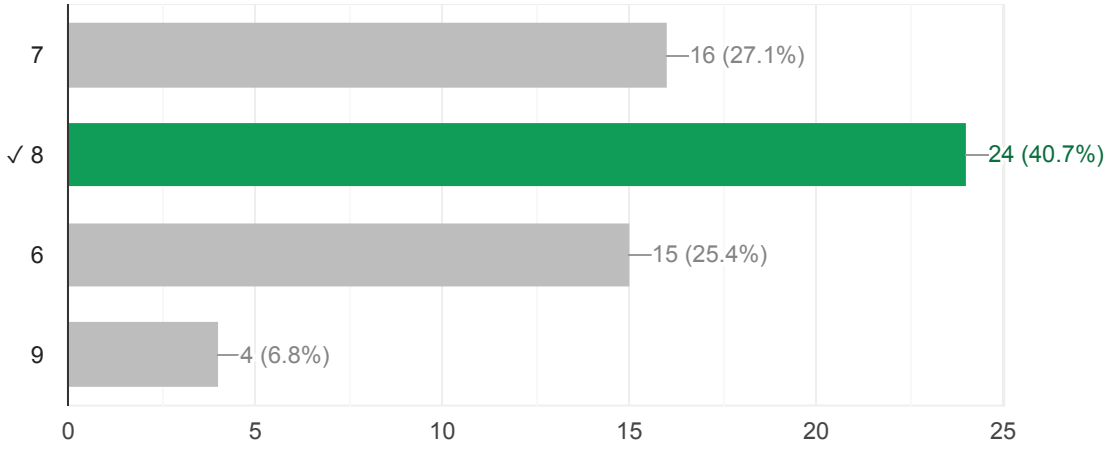
13 / 57 correct responses



Implement 9x1 Mux using 2x1 Mux then total number of 2x1 Mux used

Copy

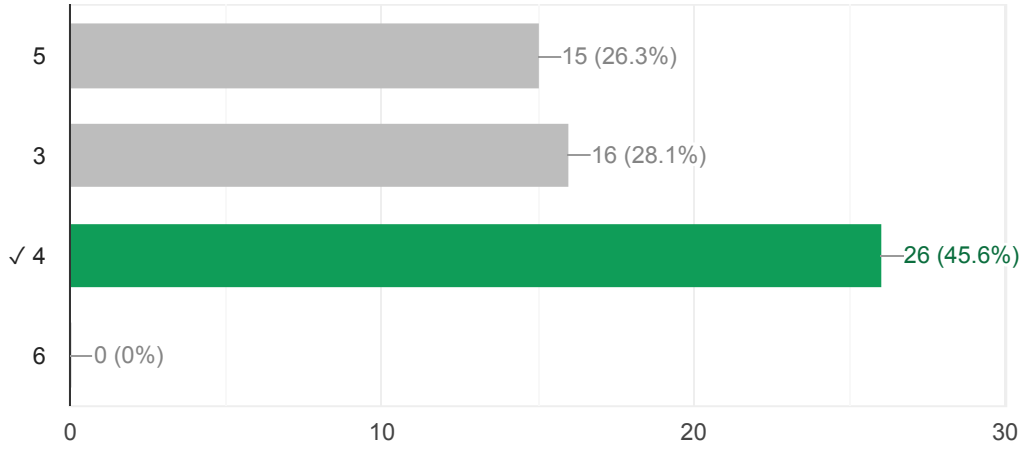
24 / 59 correct responses



If F= ∑_m (1,5,6,7,11,12,13,15) given min terms. Find number of essential prime implicants.

Copy

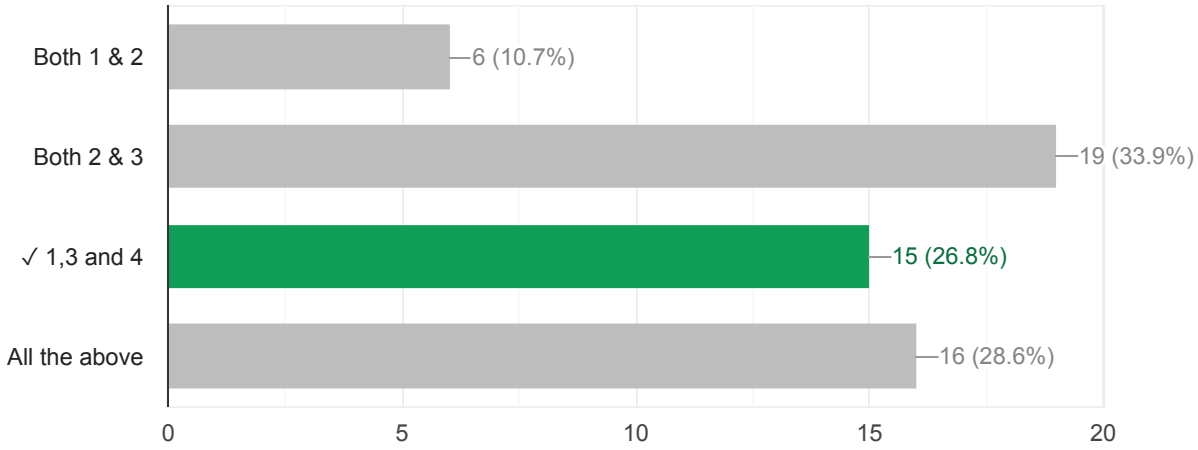
26 / 57 correct responses



Which of the following given below min terms expression are neutral and self dual? 1) ∑_m (0,2,4,6,8,10,12,14). 2) ∑_m (3). 3) ∑_m (0,2). 4) ∑_m (1,3)

Copy

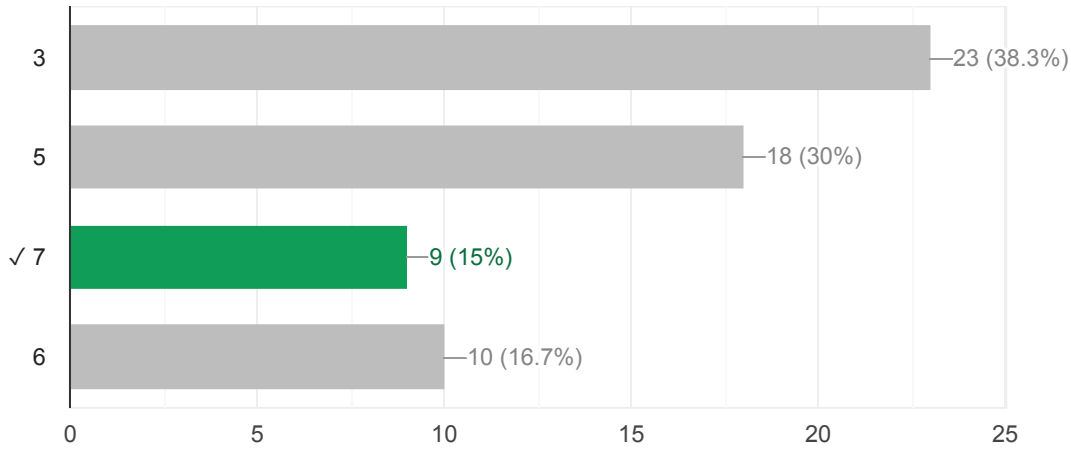
15 / 56 correct responses



How many 2x1 Mux required to implement full adder?

Copy

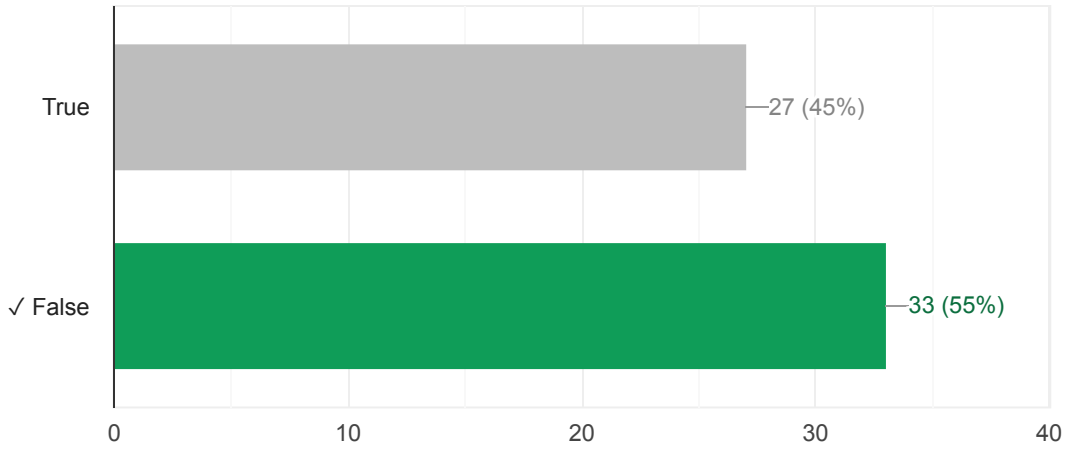
9 / 60 correct responses



If a 7 bit hamming code word received by a receiver is (1011011). Assume the even parity and check whether the received code is correct.

Copy

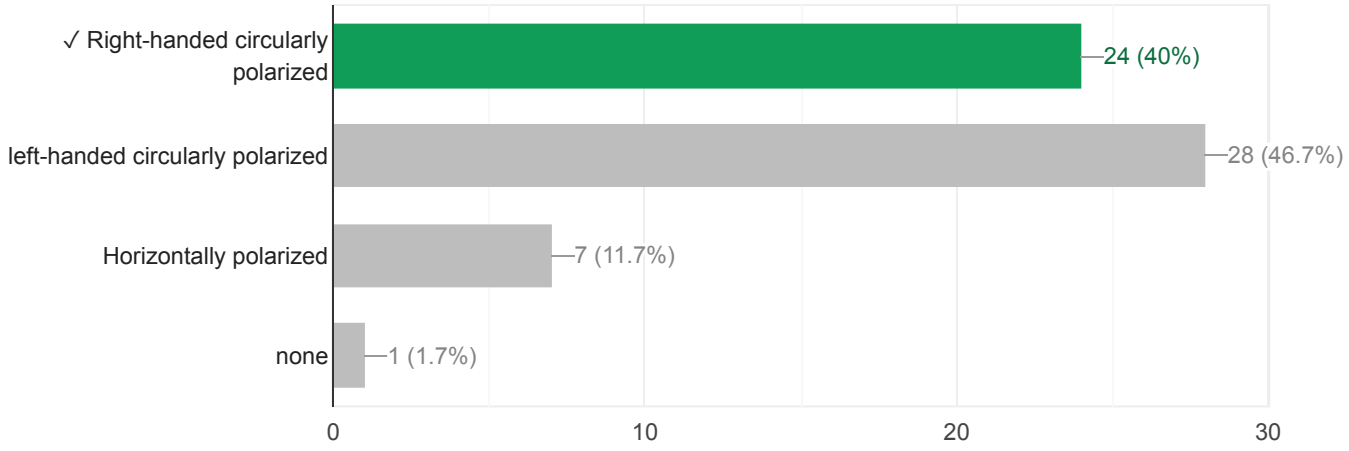
33 / 60 correct responses



If a left-handed circularly polarized wave is incident normally on a plane perfect conductor, then the reflected wave will be

Copy

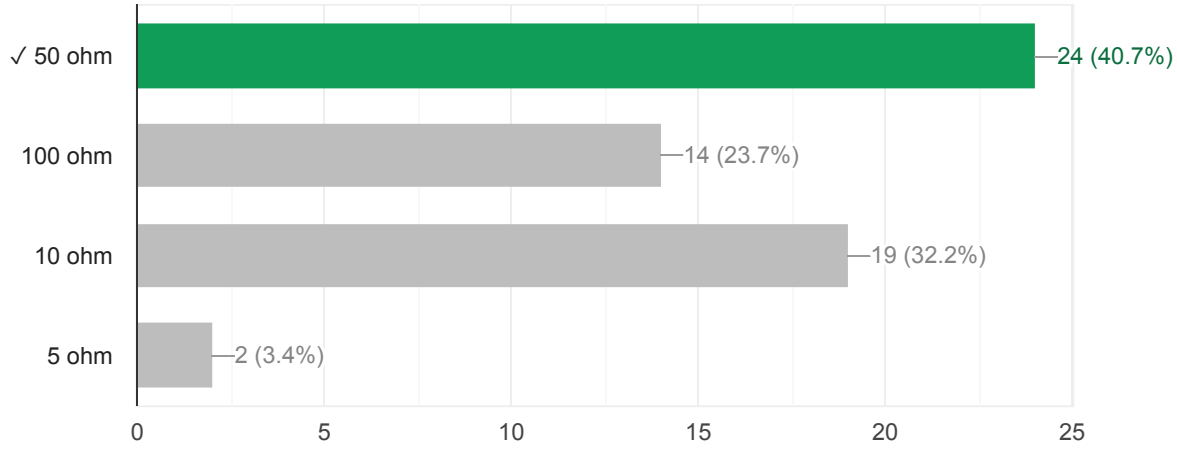
24 / 60 correct responses



In the given circuit looking into nodes 1 and 2 then equivalent resistance is

Copy

24 / 59 correct responses

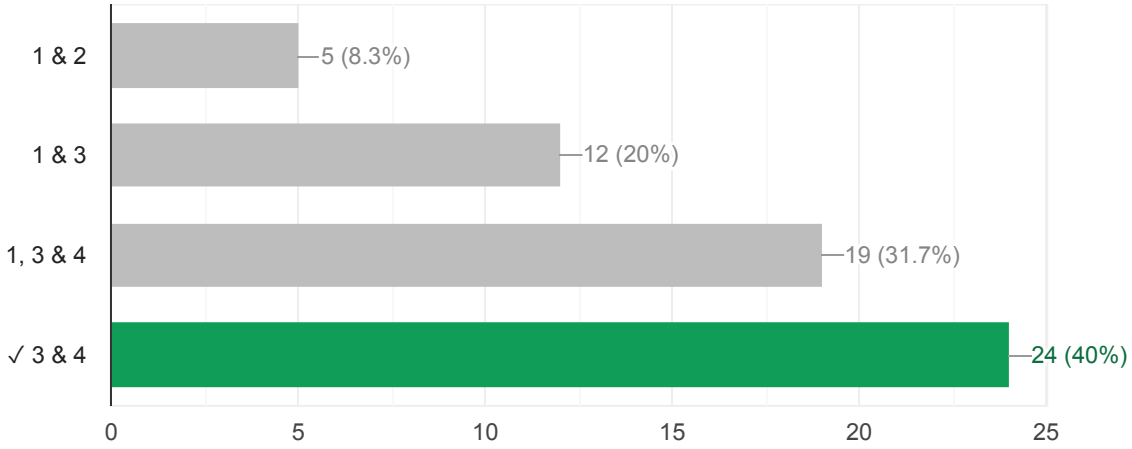


Consider the following statements regarding comparison of FET with BJT: (1) BJT is Less Noisy then FET, (2) FET is a current-controlled device whereas BJT is a voltage-controlled device, (3) FETs are more temperature stable than BJT, (4) FET is simple to fabricate occupy less area on the single chip.

Which of the above statements are correct ?

Copy

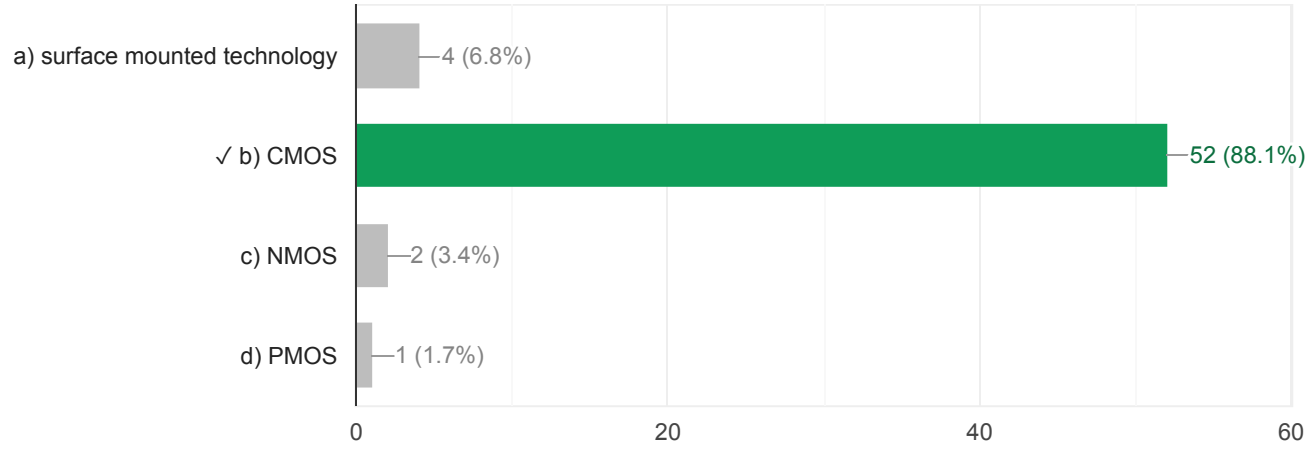
24 / 60 correct responses



which of the following technologies consumes less power

Copy

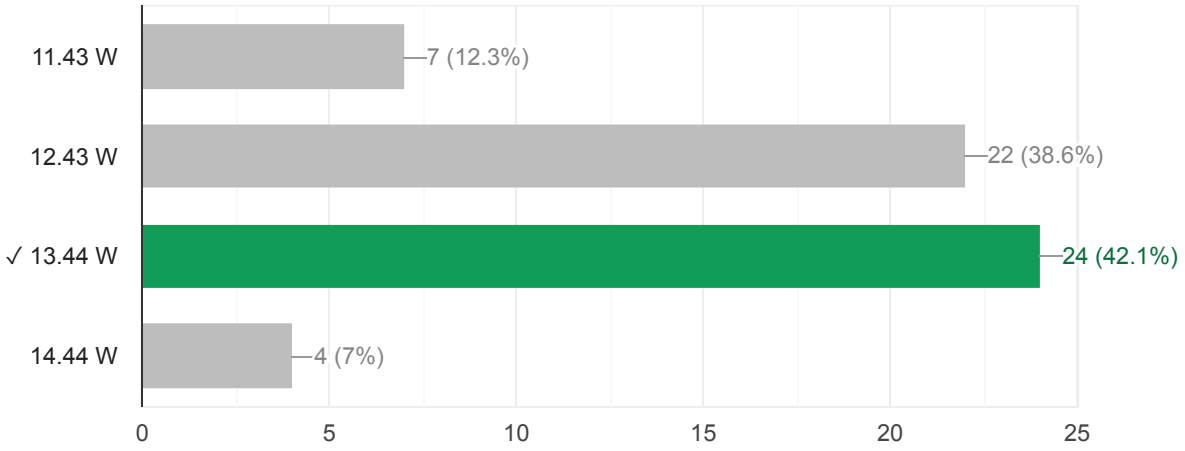
52 / 59 correct responses



What is the maximum power transferred to the load R in the given circuit?

Copy

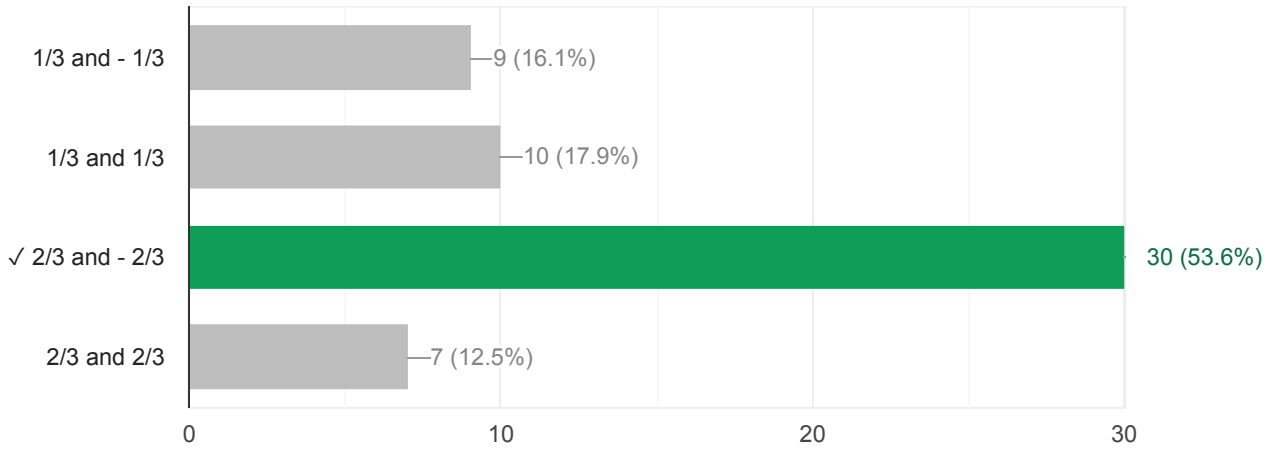
24 / 57 correct responses



What are the open circuit reverse voltage gain and the short circuit forward current gain respectively for the two port network shown in the figure?

Copy

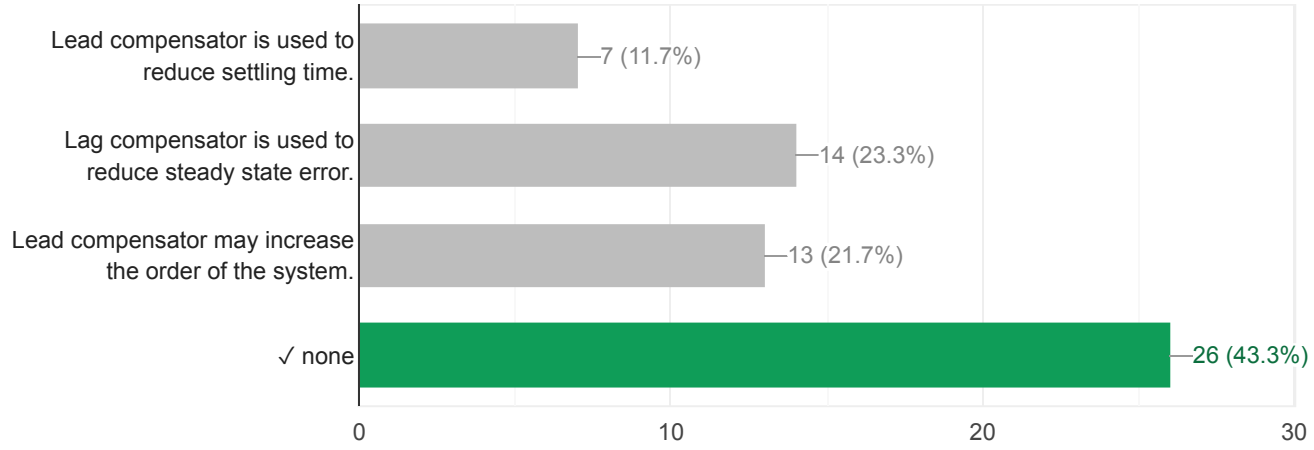
30 / 56 correct responses



Which of the following statement is incorrect?

Copy

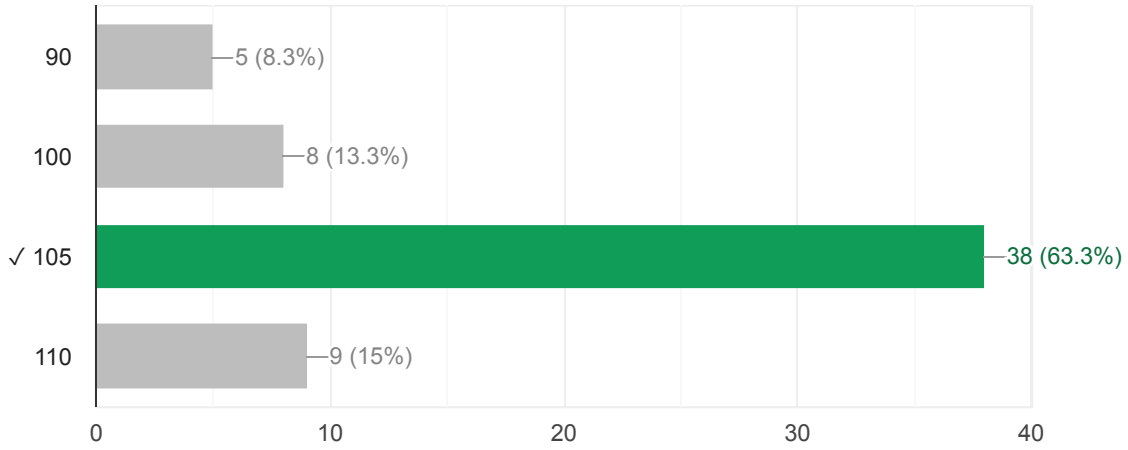
26 / 60 correct responses



In the given circuit, the silicon transistor has β=75 and a collector voltage Vc= 9V Then the ratio of RB and Rc is _____.

Copy

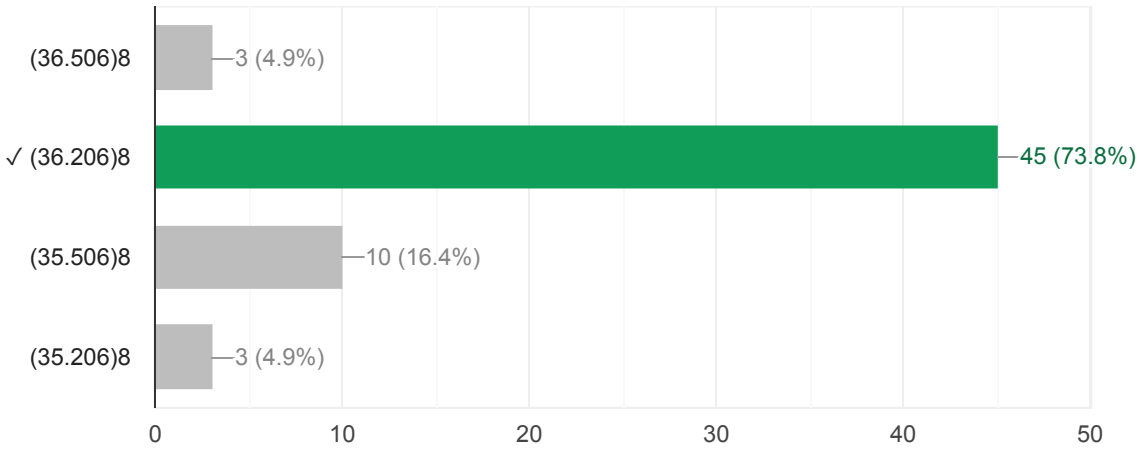
38 / 60 correct responses



The following hexadecimal number (1E.43)16 is equivalent to

Copy

45 / 61 correct responses



Online Test for Guest Lecturer (Electronics Engineering)

Common Test for Government Polytechnic, Katihar, Khagaria and Bhagalpur
Date of Test- 31-05-2022, Timing- 11:00 AM to 11:30 AM (Duration= 30 min), Full Marks: 20

IMPORTANT INSTRUCTIONS:-
1. Test consists of 20 questions carrying 1 mark each.
2. Test consists of Multiple Choice Questions (MCQ) as well as Multiple Select Questions (MSQ); a question may have one correct choice or multiple correct choices.
4. Attempt all questions. There is NO negative marking in any types of questions.
5. Candidates can SUBMIT only 1 Response.
6. Candidates are advised to SUBMIT test on or before 11:30 AM. After that test will be closed.

* Required

1. Email *

2. Name of the college applied for *

Mark only one oval.

- Government Polytechnic, Katihar
- Government Polytechnic, Khagaria
- Government Polytechnic, Bhagalpur

3. Name of Candidate *

4. Father's/Husband's Name *

5. Date of Birth *

Example: January 7, 2019

6. Gender *

Mark only one oval.

- Male
- Female

7. Category *

Mark only one oval.

- UR
- EWS
- BC
- EBC
- SC
- ST

Online Test for Guest Lecturer (Electronics Engineering)

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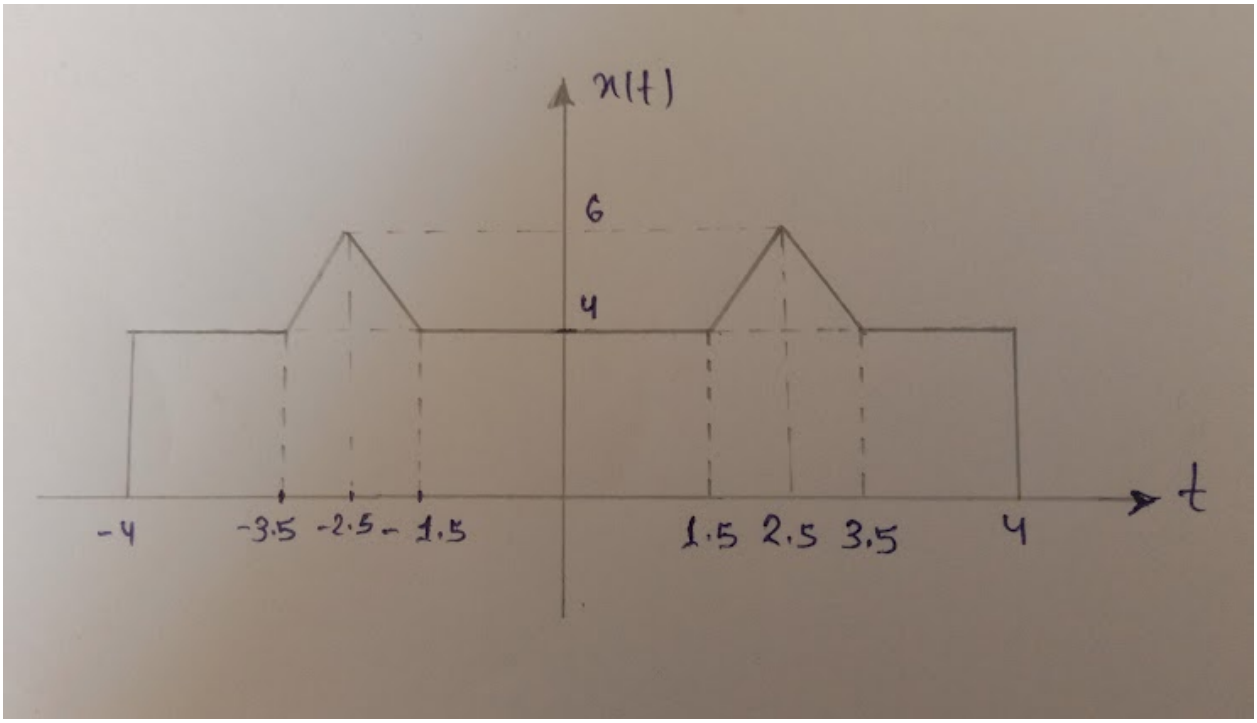
4. Attempt all questions. There is NO negative marking in any types of questions.
5. Candidates can SUBMIT only 1 Response.
6. Candidates are advised to SUBMIT test on or before 11:30 AM. After that test will be closed.

8. The phase velocity of waves propagating in a hollow metal waveguide is 1 point

Mark only one oval.

- Greater than the velocity of light in free space
- Less than the velocity of light in free space
- equal to the velocity of light in free space
- none

9. In the given below waveform, find energy in (joule) 1 point



Mark only one oval.

- 34.66
- 66.66
- 120
- 165.33

10. If x(t) = 4 cos (2t - pi/4) + 6 Sin (2t), Find Power of the given equation in watt is 1 point

Mark only one oval.

- 26
- 52
- 40
- 42.97

11. An FIR Filter given equation is y[n] = 5 x[n] - 5 x[n-2]. The filter can be used to a 1 point

Mark only one oval.

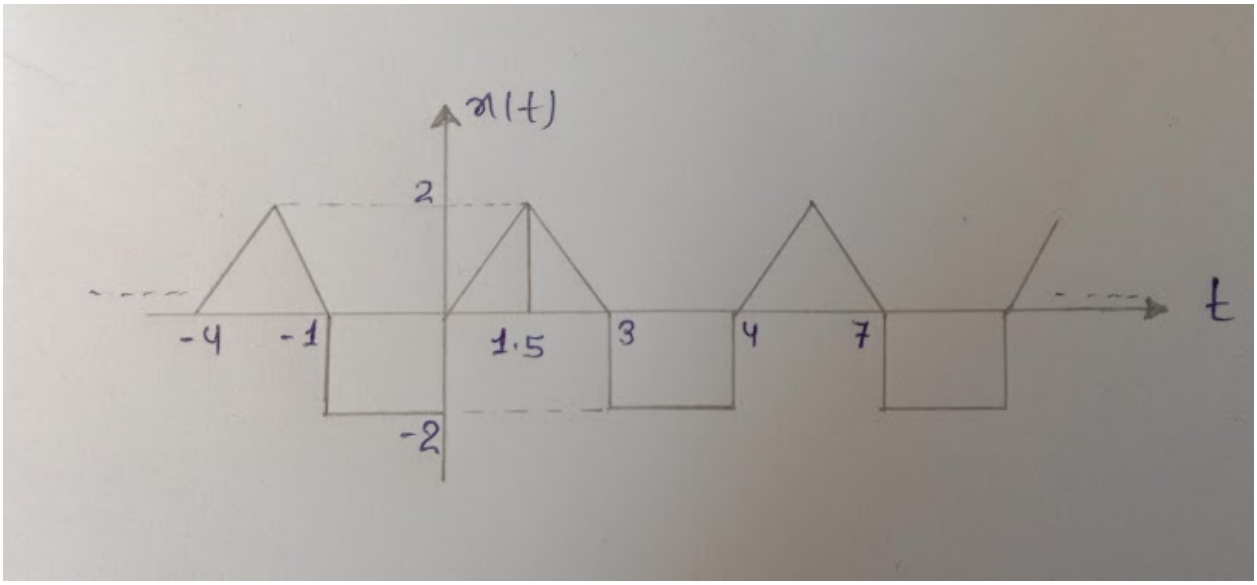
- LPF
- HPF
- BPF
- BSF

12. If x[n] = {1,3,2,3}; then find the value of [DFT{DFT x[n]}] is (N=4) 1 point

Mark only one oval.

- {1,3,2,3}
- {1,6,13,18,22,12,9}
- {3,2,3,1}
- none

13. Find Power in the given periodic wave form as shown below 1 point



Mark only one oval.

- 2 W
- 4 W
- 8 W
- 1 W

14. Implement 9x1 Mux using 2x1 Mux then total number of 2x1 Mux used 1 point

Mark only one oval.

- 7
- 8
- 6
- 9

15. If F= ∑_m (1,5,6,7,11,12,13,15) given min terms. Find number of essential prime implicants. 1 point

Mark only one oval.

- ◯ 5
- ◯ 3
- ◯ 4
- ◯ 6

16. Which of the following given below min terms expression are neutral and self dual? 1) ∑_m (0,2,4,6,8,10,12,14). 2) ∑_m (3). 3) ∑_m (0,2). 4) ∑_m (1,3) 1 point

Mark only one oval.

- ◯ Both 1 & 2
- ◯ Both 2 & 3
- ◯ 1,3 and 4
- ◯ All the above

17. How many 2x1 Mux required to implement full adder? 1 point

Mark only one oval.

- ◯ 3
- ◯ 5
- ◯ 7
- ◯ 6

18. If a 7 bit hamming code word received by a receiver is (1011011). Assume the even parity and check whether the received code is correct. 1 point

Mark only one oval.

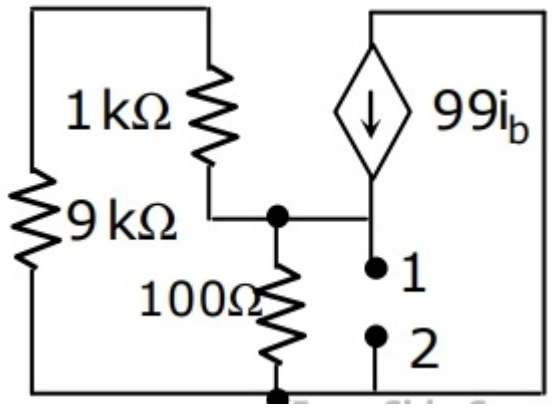
- ◯ True
- ◯ False

19. If a left-handed circularly polarized wave is incident normally on a plane perfect conductor, then the reflected wave will be 1 point

Mark only one oval.

- ◯ Right-handed circularly polarized
- ◯ left-handed circularly polarized
- ◯ Horizontally polarized
- ◯ none

20. In the given circuit looking into nodes 1 and 2 then equivalent resistance is 1 point



Mark only one oval.

- 50 ohm
- 100 ohm
- 10 ohm
- 5 ohm

21. Consider the following statements regarding comparison of FET with BJT: 1 point
(1) BJT is Less Noisy then FET, (2) FET is a current-controlled device whereas BJT is a voltage-controlled device, (3) FETs are more temperature stable than BJT, (4) FET is simple to fabricate occupy less area on the single chip.

Which of the above statements are correct ?

Mark only one oval.

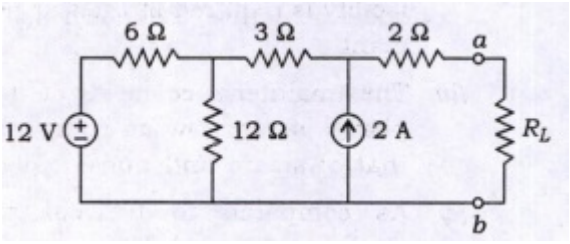
- 1 & 2
- 1 & 3
- 1, 3 & 4
- 3 & 4

22. which of the following technologies consumes less power 1 point

Mark only one oval.

- a) surface mounted technology
- b) CMOS
- c) NMOS
- d) PMOS

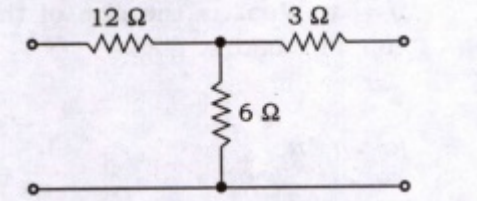
23. What is the maximum power transferred to the load R in the given circuit? 1 point



Mark only one oval.

- 11.43 W
- 12.43 W
- 13.44 W
- 14.44 W

24. What are the open circuit reverse voltage gain and the short circuit forward current gain respectively for the two port network shown in the figure? 1 point



Mark only one oval.

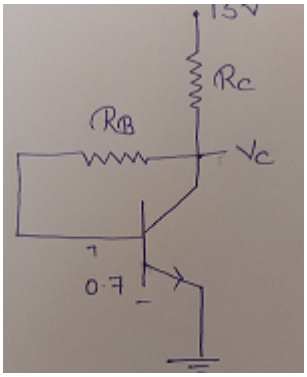
- 1/3 and - 1/3
- 1/3 and 1/3
- 2/3 and - 2/3
- 2/3 and 2/3

25. Which of the following statement is incorrect? 1 point

Mark only one oval.

- Lead compensator is used to reduce settling time.
- Lag compensator is used to reduce steady state error.
- Lead compensator may increase the order of the system.
- none

26. In the given circuit, the silicon transistor has β=75 and a collector voltage Vc= 9V Then the ratio of RB and Rc is _____. 1 point



Mark only one oval.

- 90
- 100
- 105
- 110

27. The following hexadecimal number (1E.43)16 is equivalent to 1 point

Mark only one oval.

- (36.506)8
- (36.206)8
- (35.506)8
- (35.206)8