You can preview this quiz, but if this were a real attempt, you would be blocked because:

This quiz is not currently available





The maximum gain of the following filter is R_1 R_2 V,

Select one:

- a. 0.5
- b. $R_1/(R_1+R_2)$
- \bigcirc c. R₂/(R₁+R₂)
- 🔘 d. 1

~

Question 3

Determine the filter type and the cutoff frequency of the following circuit.

Not yet answered





^



Question **6** Not yet answered Marked out of 1.00

🕎 Flag question

Edit question

[Questions 6-10 are based on the following information.]

~

A filter is described by the transfer function

$$H(s) = \frac{s}{(s+1)(s+2)}$$

The magnitude of H is

Select one:

$$\begin{array}{c} 1 \\ \bullet & \mathbf{a}. \overline{\sqrt{9 + \left(\omega - \frac{2}{\omega}\right)^2}} \\ \bullet & \mathbf{b}. \frac{\omega}{\sqrt{(\omega^2 + 1)(\omega^2 + 4)}} \\ \bullet & \mathbf{c}. \frac{\omega}{(\omega + 1)(\omega + 2)} \\ \bullet & \mathbf{d}. \overline{\sqrt{4 + \left(\omega - \frac{3}{\omega}\right)^2}} \end{array}$$

Question **7**

Not yet answered

The phase angle of H is

Select one:

Marked out of 1.00	• a. $90^{\circ} - \tan^{-1}\omega - \tan^{-1}\frac{\omega}{2}$ • b. $-\tan^{-1}\omega + \tan^{-1}\frac{\omega}{2}$ • c. $-\tan^{-1}\omega - \tan^{-1}\frac{\omega}{2}$ • d. $90^{\circ} - \tan^{-1}\omega + \tan^{-1}\frac{\omega}{2}$
Question 8 Not yet answered Marked out of 1.00 P Flag question C Edit question	The type of the filter is Select one: a. bandstop b. bandpass c. lowpass d. highpass
Question 9 Not yet answered Marked out of 1.00 Flag question Edit question	The center frequency of the filter in rad/s is Select one: a. 1.414 b. not applicable c. 1.732 d. 2
Question 10 Not yet answered Marked out of 1.00	The maximum gain of H is Select one:

♥ Flag question
★ Edit question

Select one: a. 0.5 b. 0.333 c. 0.25 d. 1

^

Tracking: " Tracking: " Tracking: "

Tracking: 'FACULTY OF ELECTRICAL & ELECTRONICS ENGINEERING/SIGNALS & NETWORKS/quiz/Quiz 5 Sec EH13 (30 May-5 Jun 2016)'

^