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## Passive Filters MCQ Test

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Below is the **Passive Filters MCQ** test that checks your basic knowledge of Passive Filters. This **Passive Filters MCQ Test** contains 20 Multiple Choice Questions. You have to select the right answer to the question. Finally, you can also take the Online Quiz from the Take **Passive Filters Quiz** Button.

**Q1. Passive filters are made up of \_\_\_\_.**

- **A. passive components**
- B. active components
- C. latest components
- D. None of the above

**Q2. The maximum output voltage of a certain low-pass filter is 15 V. The output voltage at the critical frequency is \_\_\_\_.**

- A. 0 V
- B. 15 V
- **C. 10.60 V**
- D. 21.21 V

**Q3. The bandwidth of a resonant filter is determined by the quality factor (Q) of the circuit and the resonant frequency.**

- **A. True**
- B. False

**Q4. What does the high pass filters generally comprise? A. B. C. Inductive series arm D.**

- A. Capacitive series arm
- B. Inductive shunt arm
- C. Capacitive shunt arm

- **D. Both A and B**

**Q5. Which one of the amongst is not a type of Passive filter?**

- A. Low Pass Filters
- B. Band Pass Filters
- **C. Band Stop/Power Filters**
- D. High Pass Filters

**Q6. What is a filter?**

- A. Frequency damping circuit
- **B. Frequency selective circuit**
- C. Amplitude selective circuit
- D. Amplitude damping circuit

**Q7. An RC coupling circuit is an example of what type of filter?**

- A. Low pass filter
- **B. High pass filter**
- C. Band pass filter
- D. All pass filter

**Q8. Passive filters contain amplifying devices to increase signal strength.**

- A. True
- **B. False**

**Q9. Passive Filters do not contain amplifying devices to strengthen the signal.**

- **A. True**
- B. False

**Q10. What is the value of notch frequency if the values of resistance and capacitance are 100 kV and 0.02 ?F?**

- **A. 79.6Hz**

- B. 40H
- C. 82.4Hz
- D. 21.5Hz

**Q11. The attenuation rate is also called?**

- A. Ripple
- B. Envelope delay
- C. Roll in
- D. **Roll off**

**Q12. In a certain low-pass filter,  $f_c = 3.5$  kHz. Its pass-band is**

- A. 0 Hz
- B. 3.5 kHz
- C. **0 Hz to 3.5 kHz**
- D. 7 kHz

**Q13. In a series resonant band-pass filter, a lower value of Q results in**

- A. A smaller bandwidth
- B. **A larger bandwidth**
- C. A higher impedance
- D. A higher resonant frequency

**Q14. The roll-off rate of a basic RC or RL filter is 20 dB per decade.**

- A. **True**
- B. False

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