Jules' Workshop

Standard

Unit 5 – QUESTIONS

Q1 Explain Fleming's left and right hand rules.

Q2. If the peak voltage of a sine wave is 12 V, what is the RMS and average values?

A. 8.48 A and 7.6 A
B. 7.6 V and 8.48 V
C. 7.6 A and 8.48A
D. 8.48 V and 7.6 V

Q3. Not required

Q4. A sine wave has an RMS value of 17.65 V. What is the peak, P to P and average value?

A. 50 V, 100 V and 31.8 V
B. 25 V, 50 V and 15.9 V
C. 50 V, 25 V and 6.37 V
D. Cannot be calculated.

Q 5. What is the period and wavelength of a signal at 144 MHz?

A. 6.9 nS & 2metres
B. 69 nS & 2metres
C. 0.69 nS & 2metres
D. 0.069 nS & 2metres

Q6 A signal has a period of 2 mS, what is the frequency and wavelength?

A. 500 Hz & 600 kM
B. 50 Hz & 600,000 M
C. 5000 Hz & 600 kM
D. 500 Hz & 60 kM

Q7 what is the third harmonic of 1 kHz?

A. 3 kHz
B. 4 kHz
C. 8 kHz
D. 1 kHz

Q8 If one wave is 900 out of phase with another wave, what does this mean?

Q9 What is the classification of the following signals.

Frequency	Classification
350 MHz	
33 MHz	
33 kHz	

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Q10 Draw in the lines of force and direction on the magnet below.

Q 11 Complete the following table.

Peak	**Peak to Peak**	**RMS**	**Average**		**Wavelength**	**Frequency**	**4th Harmonic**
60 v	**120v**	**42.42v**	**38.22v**		9.5m	**31.57MHz**	**126.28MHz**
	180v						100MHz
		50v				144MHz	
	600v				10m		
5v					20m		
		75v				144kHz	
	10v				5m		
95v						3.5MHz	
		100v			100m		

Q12 Explain conventional current flow and electron flow in your own words.

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