

## Lesson 16 – QUESTIONS

Q1 What is the difference between an analogue and a digital signal?

Q2 Complete the following table.

| Number | P1 | P2 | P3 | P4 | P5 | P6 | P7 | P8 |
|--------|----|----|----|----|----|----|----|----|
|        | 1  | 0  | 0  | 1  | 1  | 1  | 0  | 1  |
| 127    |    |    |    |    |    |    |    |    |
| 62     |    |    |    |    |    |    |    |    |
|        | 0  | 0  | 0  | 1  | 1  | 1  | 1  | 1  |
|        | 1  | 1  | 0  | 0  | 0  | 0  | 0  | 1  |
| 99     |    |    |    |    |    |    |    |    |

Q3 What is the ASCII code for capital A? (Look it up)

Q4 What is a D to A?

Q5 What is a A to D?

Q6 How is the optimum sampling rate calculated?

Q7 What is the optimum sampling rate for a signal that has a maximum frequency of 100 KHz?

Q8 Explain quantisation.

Q9 What is an anti-aliasing filter?

Q10 What is direct digital synthesis?

Q11 What do the terms NRZ and RZ mean?

Q12 If in a data stream running at 9600 bps and each bit represents four characters, what is the baud rate?

Q13 What is a communications protocol?

Q14 What is 2 – PSK?

Q15 Why is PSK 31 popular on amateur bands?