

## CBSE NET JUNE 2012 PAPER II

*Q. Phase Shift Keying (PSK) Method is used to modulate digital signal at 9600 bps using 16 level. Find the line signals and speed (i.e. modulation rate).*

- (A) 2400 bauds*
- (B) 1200 bauds*
- (C) 4800 bauds*
- (D) 9600 bauds*

*Ans: (A)*

*Explanation: To calculate baud rate, modulation have to be divided by the bit rate. See the table below:*

<i>MODULATION</i>	<i>BAUD RATE</i>	<i>BIT RATE</i>
<i>4-PSK</i>	<i>N</i>	<i>2N</i>
<i>8-PSK</i>	<i>N</i>	<i>3N</i>
<i>16-PSK</i>	<i>N</i>	<i>4N</i>

*Here, modulation is 96000 bps which is at level 16, so  $96000/4 = 2400$  bauds.*

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