< 22636> :< Emerging Trends in Electronics> :< Next Generation of Network> :< UO3b: Describe the Spectrum in Telecom sector> : <Assessments>:< Formative>

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| Set 1: Question No 1 | Set 1: Question No 2 | Set 1: Question No 3 |
| The radio spectrum is the part of the electromagnetic spectrum with frequencies from -----. | In licensed radio bands, \_\_\_\_\_\_\_\_\_\_\_\_\_ frequency range is between  840 MHz, 900MHz. | The ultra-high frequency band of radio waves in the electromagnetic wave is used as in \_\_\_\_\_. |
| Recall/ Remembering | Understanding | Application |
| 1. 87.5 to 108.0 MHz | a) AM broadcast | 1. Commercial FM radio |
| b) 148.5 kHz–283.5 kHz | b) FM broadcast | 1. Television |
| c) 30 Hertz to 300 GHz. | c)Television | 1. Cellular phone communication |
| d) 1.711 MHz–30.0 MHz | d)Cellular phones | 1. Microwaves |
| Ans: <c> | Ans: <d> | Ans: <b> |

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| Set 2: Question No 1 | Set 2: Question No 2 | Set 2: Question No 3 |
| Industrial, Scientific, Medical type includes several medical monitors and other devices that operate in the \_\_\_\_\_\_\_\_\_. | \_\_\_\_\_\_\_\_\_manages and sets standards with regard to the spectrum use. | Identify from the following unlicensed radio band application. |
| Recall/ Remembering | Understanding | Application |
| a)900-MHZ, 2.4-GHz | a)Wi-Fi Alliance | a)Commercial FM radio |
| b) 500-MHZ, 2.4-MHz | b) European Telecommunications  Standards Institute | b) Aeronautical navigation service |
| c) 100-KHZ, 2.4 KHz | c) Federal Communications Commission | c)Television |
| d)900-MHZ, 4.5-GHz | d) WLAN Association | d)Cellular phones |
| Ans: <a> | Ans: <c> | Ans: <b> |