< DE/EJ/ET/EN/EX/EQ/IE/IS/IC> :< 22636> :< Emerging Trends in Electronics> :< Next Generation Network> :<UO3f> :<Describe the features of OTN and PON> : <Assessments>:< Formative>

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| Set 1: Question No 1 | Set 1: Question No 2 | Set 1: Question No 3 |
| The protection scheme in an OTN network is defined by | STM-1 Frame is transmitted in \_\_\_\_\_\_\_\_\_\_\_\_ | OTN supports bit rate up-to\_\_\_\_\_\_\_ |
| Understanding | Understanding | Application |
| a) G 709 | a) 200 msec | a) 500 Mbps |
| b) G 873.1 | b) 125 µs | b) 300 Kbps |
| c) G 798 | c)50  sec | c) 100 Mbps |
| d)G 872 | d)100 nsec | d)400 Gbps |
| Ans: <b> | Ans: <b> | Ans: <d> |

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| Set 2: Question No 1 | Set 2: Question No 2 | Set 2: Question No 3 |
| Client signal encapsulation , Rate Justificationis the function of - | The wavelength range of the XG-PON1 downstream signal and the range of upstream signal on a single-fiber system are | For GPON line rate for down streaming is- |
| Recall/ Remembering | Understanding | Application |
| a) Optical channel (OCH) | a)Same | a)1.2 Gbit/s |
| b)Optical transport unit(OTU) | b) For downs stream signal wavelength is greater than that of upstream signal | b) 622.08 Mbit/s. |
| c)Optical data unit (ODU) | c) For downs stream signal wavelength is lower than that of upstream signal | c)2.4 Gbit/s |
| d)Optical Payload unit (OPU) | d) Depend on application it varies | d)155.52 Mbit/s. |
| Ans: <d> | Ans: <b> | Ans: <c> |