

No Preview  
Available

Total No. of Question : [4]

Registration No. : 

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**Programme Name : Bachelor of Electronics and Telecommunication Engineering**  
**Regular B.Tech.Final Year (A.Y.2023-24) ESE Sem. VII Nov.2023**  
**VII SEMESTER ( 2020 BATCH)**  
**201ETL402-Advanced Mobile Communication(TH)**

Duration : [ 02:00 PM - 04:00 PM ]

Date : 23 Nov, 2023

Day : Thursday

Marks : 50

**Instructions :**

**(Q1) All Questions are compulsory** [20.0]

(1.1) Explain with diagrammatic illustration of reflection, diffraction and scattering. [6.0]

**CO :-** CO1, CO2

**Blooms Taxonomy :-** Remember, Evaluate

(1.2) Explain mobile ad-hoc networks in detail. [7.0]

**CO :-** CO1, CO2

**Blooms Taxonomy :-** Remember, Evaluate

(1.3) Draw and explain WiMAX network architecture. [7.0]

**CO :-** CO1, CO2

**Blooms Taxonomy :-** Remember, Evaluate

**(Q2) All Questions are compulsory** [10.0]

(2.1) Explain HSPA architecture [4.0]

**CO :-** CO1, CO2

**Blooms Taxonomy :-** Remember, Evaluate

(2.2) Explain heterogeneous networks in detail. [6.0]

**CO :-** CO3

**Blooms Taxonomy :-** Understand

**OR [ 2.2 / 2.3 ]**

(2.3) Explain Multimode terminals and intersystem handover. [6.0]

**CO :-** CO3

**Blooms Taxonomy :-** Understand

**(Q3) All Questions are compulsory** [10.0]

(3.1) Write note on channel structure of LTE. [3.0]

**CO :-** CO1, CO2

**Blooms Taxonomy :-** Remember, Evaluate

(3.2) Explain downlink OFDMA radio resource in detail. [7.0]

**CO :-** CO3

**Blooms Taxonomy :-** Understand

**OR [ 3.2 / 3.3 ]**

(3.3) Explain H-ARQ on downlink uplink channel transport processing. [7.0]

**CO :-** CO3

**Blooms Taxonomy :-** Understand

**(Q4) Attempt any two out of three questions** [10.0]

(4.1) Explain retro directive arrays. [5.0]

**CO :-** CO1, CO2

**Blooms Taxonomy :-** Remember, Evaluate

(4.2) Explain spatial filtering with beam formers. [5.0]

**CO :-** CO3

**Blooms Taxonomy :-** Understand

(4.3) Explain diversity techniques. [5.0]

**CO :-** CO3

**Blooms Taxonomy :-** Understand

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