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**MCS-231**

**MASTER OF COMPUTER  
APPLICATIONS (MCA)**

**(New)**

**Term-End Examination**

**June, 2023**

**MCS-231 : MOBILE COMPUTING**

*Time : 3 Hours*

*Maximum Marks : 100*

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**Note :** *Question No. 1 is compulsory and carries 40 marks. Attempt any **three** questions from the rest.*

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1. (a) What is Time Division Multiplexing (TDM)? What are the advantages, disadvantages and applications? 10
- (b) What is GSM technology? Explain its advantages and disadvantages. 10
- (c) What is a 4G network? Explain its features. 10
- (d) What is WIMAX? Explain its features. 10
2. (a) What is Data Synchronization? Explain it. 10
- (b) Write a short note on Mobile Commerce. 10

**P. T. O.**

3. (a) Draw and explain Android architecture. 10  
(b) Explain various components of J2ME. 10
4. (a) What is guided transmission ? How does it differ from unguided transmission ? Give example(s). 10  
(b) Explain any *two* reasons for weakening of figural strength after transmission. 10
5. (a) What is an antenna ? What is its functionality ? On what factor(s) does its size depend on ? 10  
(b) What is CDMA ? How does it differ from GSM ? 10