

**MASTER OF COMPUTER
APPLICATIONS (MCA-NEW)**

Term-End Examination

December, 2025

MCS-231 : MOBILE COMPUTING

Time : 3 Hours

Maximum Marks : 100

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 Wavelength Division Multiplexing (WDM) ? What are its advantages, disadvantages and applications ? 10
 - (b) What is a Cellular Network ? Under what conditions frequency reuse is possible by different cells in the network ? 10

- (c) What is a 4G Network ? How does it differ from a 3G Network ? What are its advantages ? Also, explain its features. 10
- (d) What are Adhoc Networks ? Explain their features. Also, explain their advantages and disadvantages. 10
2. (a) Explain Mobile Computing Architecture with the help of a diagram. 10
- (b) Explain the functions of a Mobile Operating System. 10
3. (a) What are actuators ? Give some examples of actuators, found in Robots. 10
- (b) What do you mean by XML parsing ? Explain with an example. 10
4. (a) Explain the features of an Integrated Development Platform for Mobile Apps. 10
- (b) Explain the features of iOS. 10

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5. (a) What is CDMA ? How does it differ from GSM ? 10
- (b) What is an antenna ? What is its functionality ? On what factor(s) does its size depend ? 10

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