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**PRESIDENCY
UNIVERSITY**

BENGALURU

School of Computer Science and Engineering

Mid - Term Examinations - November 2024

Semester: VII

Date: 05/11/2024

Course Code: CSE3090

Time: 02.00pm to 03.30pm

Course Name: 5G Networking

Max Marks: 50

Program: B.Tech - CSE

Weightage: 25%

Instructions:

(i) Read all questions carefully and answer accordingly.

(ii) Do not write anything on the question paper other than roll number.

Part A

Answer ALL the Questions. Each question carries 2marks.

5Qx2M=10M

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|---|---|---------|----|-----|
| 1 | What are the characteristics of second generation 2G? | 2 Marks | L1 | CO1 |
| 2 | Define User Equipment (UE) with example. | 2 Marks | L1 | CO1 |
| 3 | What are the expectations from 5G networks? | 2 Marks | L1 | CO1 |
| 4 | Compare NFV & SDN. | 2 Marks | L3 | CO2 |
| 5 | What is functional split? Mention the factors followed in it. | 2 Marks | L1 | CO2 |

Part B

Answer ALL Questions. Each question carries 10 marks.

4QX10M=40M

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|---|---|---------|----|-----|
| 6 | 6a. Describe the Evolution of cellular standards. | 6 Marks | L2 | CO1 |
| | 6b. List the features 5G. | 4 Marks | L3 | CO1 |

or

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|---|---|---------|----|-----|
| 7 | 7a. Classify the main characteristics of 3GPP/ETSI standards. | 6 Marks | L3 | CO1 |
| | 7b. Mention the use cases of 5G. | 4 Marks | L2 | CO1 |

8	Explain various 5G services along with neat sketch.	10Marks	L2	C01
or				
9	9a. List the various enablers of 5G services.	6 Marks	L3	C01
	9b. Summarize the various requirements for the use cases.	4 Marks	L3	C01
10	Mention the role of Network Function Virtualization (NFV) in detail with suitable diagram.	10Marks	L2	C02
Or				
11	Mention the role of Software Defined Networking (SDN) in detail with suitable diagram.	10Marks	L2	C02
12	With neat sketch explain RAN architecture	10Marks	L2	C02
or				
13	What are the principles should be followed while selecting High-level requirements for the 5G architecture? Explain it.	10Marks	L1	C02