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**PRESIDENCY UNIVERSITY  
BENGALURU**

**SCHOOL OF ENGINEERING  
MID TERM EXAMINATION - APR 2023**

**Semester :** Semester VI - B.Tech CSE - 2020

**Course Code :** CSE2053

**Course Name :** Sem VI - CSE2053 - Enterprise Network Design

**Program :** B.Tech. Computer Science and Engineering

**Date :** 13-APR-2023

**Time :** 11:30AM - 1:00PM

**Max Marks :** 60

**Weightage :** 30%

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**Instructions:**

- (i) Read all questions carefully and answer accordingly.
  - (ii) Question paper consists of 3 parts.
  - (iii) Scientific and non-programmable calculator are permitted.
  - (iv) Do not write any information on the question paper other than Roll Number.
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**PART A**

**ANSWER ALL THE QUESTIONS**

**(5 X 2 = 10M)**

1. Name some of the benefits of using the SONA framework  
(CO1) [Knowledge]
2. What are the three basic steps of the design methodology?  
(CO1) [Knowledge]
3. What features are included in the Cisco vision of an intelligent network?  
(CO1) [Knowledge]
4. What is a benefit of using multilayer switching in the core network layer?  
(CO2) [Knowledge]
5. Which layer in the hierarchical model provides media translation?  
(CO2) [Knowledge]

**PART B**

**ANSWER ALL THE QUESTIONS**

**(4 X 5 = 20M)**

6. A top-down approach to design has many benefits compared to a bottom-up approach. Explain.  
(CO1) [Comprehension]
7. The Cisco SONA architecture transforms the view of network from transport-oriented toward a service- and application-oriented view. Explain  
(CO1) [Comprehension]
8. How can the Server Farm module be involved in an organization's internal security?  
(CO2) [Comprehension]

9. Briefly Explain how two routers are connected via Frame Relay, but ping is not working between them. How could CDP help troubleshoot this situation?

(CO2) [Comprehension]

### **PART C**

#### **ANSWER ALL THE QUESTIONS**

**(2 X 15 = 30M)**

10. Explain in detail about the top-down approach to network design with an example.  
(CO1) [Application]
11. Elaborate in detail about The Cisco Enterprise Architecture.  
(CO2) [Application]