

Total No. of Questions :6]

SEAT No. :

P294

Oct./BE/Insem. - 612

[Total No. of Pages : 2

B.E. (Information Technology)

SOFTWARE DEFINED NETWORKS

(2015 Course) (Semester - I) (414457 A) (Elective - II)

Time : 1 Hour]

[Max. Marks : 30

Instructions to the candidates:

- 1) *Answer Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6.*
- 2) *Neat diagrams must be drawn wherever necessary.*
- 3) *Figure to the right side indicate full marks.*
- 4) *Assume suitable data if necessary.*

Q1) a) Explain the different planes in SDN with reference to their roles & importance. **[6]**

b) Why SDN is necessary? What are the fundamental characteristics of SDN. **[4]**

OR

Q2) a) Explain with suitable diagram layered framework of SDN. **[6]**

b) Enlist applications of SDN. Explain any one application in detail. **[4]**

Q3) a) How openflow pipeline and forwarding model in SDN increases the packet processing efficiency? Explain in detail. **[6]**

b) Write a note on mininet or floodlight. **[4]**

OR

Q4) a) What is the role of flow and group tables in packet forwarding. **[6]**

b) What are the hybrid approaches of open networking foundation. **[4]**

P.T.O.

Q5) a) What do you understand with network as a service? Justify your answer with suitable example. [6]

b) Define network virtualization. What are the components and benefits of network virtualization. [4]

OR

Q6) a) Explain network virtualization framework in VMW are [6]

b) List different applications of network virtualization. Explain any one application in detail. [4]

