Lecture 09 tutorial: WAN. The Internet

During tutorials prepare a short report of your activities and show it to your tutor.
Study the following **questions** and verify the correctness of the **answers** if given.
Be aware that the exam question might be directly related to the tutorial questions

Q1: Describe differences between the Wide area Networks and the Internet.

A: Slide 3

Q2: Describe topology of the Monash Network

A: Slide 6

Q3: Is there any reason to prefer a submarine fibre optics cable to terrestrial one?

A: Submarine cables can be cheaper to deploy comparing with the terrestrial cables. In densely populated areas it might be costly to find the land available to deploy the terrestrial cables.

Q4: What is dark fibre and what is it used for?

A: Slide 14

Q5: What are the T-Carrier services

A: Slide 17

Q6: Describe the SONET/SDH services and its new replacement, the OTN standard.

A: Slide 18, 19

Q7: Name popular packet switched services

A: Slide 20

Q8: What is Metro Ethernet and where is it used?

A: Slide 21, 22

Q9: What is MPLS and how does it work?

A: Slide 23, 24, 25

Q10: Describe briefly the three-tier view of the Internet

A: Slide 26, 27, 28, 29

Q11: What are: ISPs, PoPs, peering points

A: Slides 30, 31

Q12: You pay for the access to the Internet, but who pays for the traffic on the internet? Explain.

A: Slide 30

Q13: What are RFCs and who take care of them?

A: Slide 33

Q14: List Internet Access Technologies

A: Slide 34

Q15: Describe basic features of DSL Technologies

A: Slide 35,

Q16: Describe basic features of the cable modem technology

A: Slide 36, 37, 38, 39

Q17: Describe briefly basic Fibre to the X technologies

A: Slide 40, 41

Q18: Compare active and passive optical network technologies

A: Slide 42, 43, 44