2016

Time: 3 hours

Full Marks: 80

Candidates are required to give their answers in their own words as far as practicable.

The questions are of equal value.

Answer **five** questions in which Q. No. 1 is compulsory.

1.	Choose the correct option of the following:					
	(a)	The	ere areInternet Service			
112		pro	providers.			
,		(i)	Regional			
		(ii)	Local			
		(iii)	National and international			
		(iv)	All of the above			
	(b)		refers to the physical or logical			
	arrangement of a network.					
		(i)	Topology			
		(ii)	Mode of operation			
OC	_11	6/2	(Turn over)			

(c) A is a data communication	(i) Protocol
system spanning states, countries or the whole world.	(ii) Forum 15 and College Coll
(i) MAN (ii) WAN (iii) LAN (iv) None of the above (d) A connection provides a dedicated link between two devices. (i) Primary	(iii) Standard (iv) None of the above (g) In a connection, two and only two devices are connected by a dedicated link. (i) Multipoint (ii) Point-to-point (iii) Both (i) and (ii)
(ii) Multipoint(iii) Point-to-point(iv) Secondary	(iv) None of the above (h) The information to be communicated in a data communications system is the
 (e) Which topology requires a multipoint connection? (i) Bus (ii) Star (iii) Mesh (iv) Ring 	(i) Medium (ii) Protocol (iii) Message (iv) Transmission
OC – 116/2 (2) Contd.	OC – 116/2 (3) (Tum over)

(iii) Data flow

(iv) None of the above

(c) A _

is a set of rules that governs

data communication.

(i) Protocol

- 2. (a) What is Multiplexing? Explain the different types of Multiplexing?
 - (b) Write about Frequency Division Multiplexing.
- Write about Line Coding and its characteristics.Write about different Line Coding Techniques.
- Write about the different transmission modes. Explain the different types of errors in data transmission.
 - 5. (a) What is framing? Explain the different framing algorithms?

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- (b) Write about Flow Control and Error Control.
- Write about the different connecting devices.
 Explain about loop problem in Transparent Bridges.
- 7. What is Switching and what are the different types of Switching Techniques ? Write about Circuit Switched Network.
- What is Network and explain characteristics of Networks? Write about the different types of connection.
- 9. Explain the various types of networking and internetworking devices. Also, explain Glossary.

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OC - 116/2	(400) (4)	BCA(VI) — 601
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