

Time: Three hours

Full Marks: 100

Answer any five questions

1. (a) Discuss in brief the working principle of Optical Character Recognition.  
(b) Modern Optical Character Recognition devices are called Intelligent Character Recognition devices. Why ?  
(c) Discuss in brief the application of Optical Character Recognition.  

5+10+5 =20
2. (a) What are the basic differences between text scanner and image scanner ?  
(b) Discuss in brief the working principle of telecommunication system.  
(c) Discuss in brief the problems occurred in transferring data through telecommunication systems.  

5 + 5 +10 =20
3. (a) Discuss in brief the functions of the following equipments used in Computer-to-Plate units: -
  - (iii) Digital Front End (DFE).
  - (iv) Post Script Interpreters and RIPs.(b) Discuss in brief the working principle of the following type of exposure units used in CTP with their merits and demerits:-
  - (iii) Internal Drum Type
  - (iv) External Drum Type

(5+5)+(5+5)=20
4. (a) What are the different types of plates used in CTP ?  
(b) Discuss in brief on any three types of CTP plates with their processing.  

4+16 =20
5. Discuss in brief the basic configurations of Web Offset Presses used in Newspaper Industry. 

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6. Discuss in brief about the different types of automatic reel splicing systems used in the web offset press. 

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7. Discuss with diagram any two dampening systems used in the web offset press. 

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