

Ref. No: Ex/PRN/PC/B/T/311/2024(S)
B.PRINTING ENGG. SUPPLEMENTARY EXAMINATION 2024

(Third Year, First Semester)

OFFSET PRINTING MACHINES

Time: Three hours

Full Marks: 100

Answer any **Five questions**

1. a) In any sheetfed offset press the bevel edge of the depression gap of the plate cylinder carrying the leading plate edge is designed to coincide with the blanket cylinder depression slightly in advance. Why?
b) Discuss in brief the plate and blanket clamping mechanisms used in sheetfed offset press.
c) Discuss in brief the merits and demerits of the contact bearer type of sheetfed offset press over the non-contact bearer type of sheet fed offset press. 2+8+10=20
2. a) What are the basic features of an inking system used in sheet fed offset press?
b) Discuss in brief how the supply of ink is controlled in sheet fed offset press.
c) Discuss in brief the different types of ink rollers pyramids used in sheet fed offset press. 5+7+8=20
3. a) Discuss with neat sketch how the sheet is transferred between multi-station of a multicolor sheet fed offset press without disturbing the registration.
b) Discuss in brief the different types of intermediate sheet transport devices used in sheet fed offset presses. 10+10=20
4. Discuss in brief the any two types of sheet insertion systems used in sheet fed offset presses. 10+10=20
5. a) What are the basic differences between single sheet feeder and streamline sheet feeder?
b) All the stream feeder are designed to prevent and discourage the feeding of double sheets. How?
c) Discuss how the sheet control devices guide the sheets on the feed table in stream feeder of the sheet fed offset press. 8+5+7=20
6. a) What are the adjustment provisions the front lays have?
b) Discuss in brief about the different types of pull type side lays used in sheet fed offset press.
c) What are the limitations of the push type side lays? 5+10+5=20
7. Discuss the different control devices used in the delivery bay of the sheet fed offset press to deliver the sheet without marking the previous one. 20