

(ENGLISH)

[TIME ALLOWED—3 HOURS]

(MARKS—100)

OFFSET PRINTING (THEORY-II)*Instructions.*—(1) All question are *Compulsory*.**Marks**

1. (a) Fill in the blanks (any *five*) :— 5
- (i) Basic principle of offset printing is
 - (ii) Set off means
 - (iii) Cylinder gap use for
 - (iv) In offset printing paper drying purpose use powder.
 - (v) metal use for offset printing plates.
 - (vi) Blower use for purpose.
- (b) State whether *true* or *false* (any *five*) :— 5
- (i) Double sheet detector use on web offset printing machine.
 - (ii) Register mark is quality control device.
 - (iii) In screen printing process maintain ink and water balance.
 - (iv) Blower use for paper separation.
 - (v) Flexography printing use for packaging printing.
 - (vi) Liquid ink use for offset printing.
- (c) State the long form (any *five*) :— 5
- (i) R.G.B.
 - (ii) C.T.P.
 - (iii) C.P.C.
 - (iv) P.S.
 - (v) P.H.
 - (vi) C.M.Y.K.
- (d) Match the pairs :— 5
- | ‘ A ’ Group | ‘ B ’ Group |
|------------------------|--------------------------|
| (i) PH. | (a) Blanket |
| (ii) Compressible | (b) Anti-set off powder |
| (iii) P.S. plate | (c) Alcohol dyampening |
| (iv) Forwarding system | (d) Flexography printing |
| (v) Delivery unit | (e) Offset printing |
| (vi) Liquid ink | (f) Feeder. |

[*turn over*]

2. Attempt any *two* of the following :— 16
- (a) Draw a diagram of central drum inking system and explain their working.
 - (b) Explain difference between offset printing and Gravure printing process.
 - (c) Explain offset main printing unit.
 - (d) Explain any one method use in screen printing process.
3. Attempt any *two* of the following :— 16
- (a) Draw a single colour printing machine diagram and describe.
 - (b) Describe any one feeding system in offset printing machine.
 - (c) Describe advantages and disadvantages of screen printing and offset printing.
 - (d) Where we use double sheet detector ? What is the purpose of double sheet detector ?
4. Answer in brief (any *two*) :— 16
- (a) How to work back separation feeding system ? Explain in briefly.
 - (b) Explain in briefly difference between sheet fed and web fed offset printing machine and write on the advantages and disadvantages.
 - (c) Draw a diagram of double 3 sheet detector, explain their working.
 - (d) Draw a diagram of plate cylinder and explain briefly their parts.
5. Write short notes on (any *four*) :— 16
- (a) Under cut
 - (b) Cylinder gap
 - (c) Delivery unit
 - (d) No sheet detector
 - (e) Hicky problem.
6. Attempt any *two* of the following :— 16
- (a) Describe make ready on offset printing machine.
 - (b) Explain how to plan for offset printing job ?
 - (c) What is impact and non impact printing ? Explain with example.
 - (d) Draw a diagram of any four quality control mark used in offset printing.
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