


| $\begin{gathered} \text { SECTION-D } \\ \text { 2Qx15M=30 Marks } \end{gathered}$ |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Q | Answer the following questions |  |  |  |  |  |  |  |  |
| 8 | A book binder has on different books. The p performing binding a <br> Decide the optimum time required to bring | rinting cess is printin <br> uence at all th | one <br> intin <br> ations <br> 2 <br> 90 <br> 60 $\qquad$ <br> essin <br> s. Al | g mac <br> then <br> iffere <br> 3 <br> 120 <br> 75 <br> ooks <br> d the | and manu ng. The ti oks are sh <br> der to min minimum | 5 <br> 80 <br> 90 |  <br> 6 <br> 15 <br> 35 | 15 | CO4 |
| 9 | Product A is made from two components, B and C. It takes one B and two C's to make a single product A . Component B is made from three parts D 's. Component C is made from 1 part D and 2 part E's. Use this information together with data below to answer the following questions: |  |  |  |  |  |  |  |  |
|  | Part | Lead |  |  | On hand |  |  |  |  |
|  | A | 1 |  | L Lot | 50 |  |  | 15 | CO4 |
|  | B | 1 |  | L Lot | 10 |  |  |  |  |
|  | C | 2 |  |  | 50 |  |  |  |  |
|  | D | 1 |  |  | 120 |  |  |  |  |
|  | E | 2 |  |  | 0 |  | eek |  |  |

a) Make MRP records for $\mathrm{A}, \mathrm{B}, \mathrm{C}, \mathrm{D}$, and E . Production quantities and production start dates for A are: 20 in week 2, 50 in week 4,30 in week 6,40 in week 7, 50 in week 9 , and 40 in week 11 .

Use the below MRP record:

| Week |  |
| :--- | :--- |
| Gross Requirement |  |
| Scheduled receipts |  |
| Projected Available |  |
| Net requirements |  |
| Planned order receipt |  |
| Planned order release |  |

