

|  | (b) IRR <br> (c) Profitability Index <br> (d) None of the above |  |  |
| :---: | :---: | :---: | :---: |
| 8. | Which of the following is not an inventory? <br> (a) Machine <br> (b) Raw material <br> (c) Finished products <br> (d) Consumable tools | 2 | CO1 |
| 9. |  $A$ <br> 1 104524 <br> 2 906346 <br> 3 176897 <br> 4 104524 <br> 5 906346 <br> 6 276897 <br> 7 004524 <br> 8 906346 <br> 9 76897 <br> Out of the formulas mentioned below, which formula result excel will not be able to calculate? (Use above mentioned excel sheet table) <br> (a) $=\mathrm{SUM}$ (Sales)-A3 <br> (b) $=$ SUM(A1:A5)*. 5 <br> (c) $=\operatorname{SUM}(\mathrm{A} 1: \mathrm{A} 9) /(10-10)$ <br> (d) $=$ SUM(A1:A5)-10 | 2 | $\mathrm{CO2}$ |
| 10 |  A <br> 1 004524 <br> 2 906346 <br> 3 076897 <br> For the excel sheet format given above, write the output of the function $=$ RIGHT(A2,4) | 2 | CO2 |
|  | Section-B |  |  |
| Q.No | Question | Marks | COs |
| 11. | A toy manufacturing company is giving $8 \%$ percent discount on the marked price. Calculate the total price paid for the items ordered in the following format using excel functions | 5 | CO1 |



| 15. | $\begin{aligned} & X_{1}+2 X_{2} \leq 6 \\ & 2 X_{1}+X_{2} \leq 8 \\ & -X_{1}+X_{2} \leq 1 \\ & X_{2} \leq 2 \\ & X_{1}, X_{2} \geq 0 \end{aligned}$ |  |  |  |  | 10 | CO 2 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 16. | Solve the following transportation problem using excel solver. |  |  |  |  | 10 | CO 2 |
|  | Unit Cost W1 | W2 | W3 | W4 | Supply |  |  |
|  | F1 | 0 | 20 | 11 | 20 |  |  |
|  | F2 | 7 | 9 | 20 | 25 |  |  |
|  | F3 0 | 14 | 16 | 18 | 15 |  |  |
|  | Demand 10 | 15 | 15 | 20 |  |  |  |
|  | Using excel draw percentag | chart | llow | and in | your re |  |  |
|  | Crop |  |  | a (In |  |  |  |
|  | Cereals |  |  | 23 |  |  |  |
|  | Pulses |  |  | 18 |  |  |  |
|  | Vegetables |  |  | 32 |  |  |  |
| 17. | Fruits |  |  | 15 |  | 10 | CO3 |
|  | Flowers |  |  | 80 |  |  |  |
|  | Others |  |  | 35 |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Discuss any four kinds of e | pears | dshee |  |  |  |  |
|  |  |  | Section |  |  |  |  |


| 18. | Cost of capital 15\% |  |  |  | $\begin{aligned} & 5 \\ & 5 \\ & 5 \end{aligned}$ | CO3 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Year |  | Project 1 | Project 2 |  |  |
|  | 1 |  | -₹ 400 | -₹ 800 |  |  |
|  | 2 |  | ₹ 130 | ₹ 360 |  |  |
|  | 3 |  | ₹ 190 | ₹ 360 |  |  |
|  | 4 |  | ₹ 260 | ₹ 360 |  |  |
|  | (a) Calculate NPV for both the projects? <br> (b) Calculate IRR for both the projects? |  |  |  |  |  |
| 19. | A company manufactures a line of 10 items. Their usage and unit cost are shown in the accompanying table along with annual rupee value usage of each. Group items into ABC classification. |  |  |  | 15 | CO 4 |
|  | Item | Unit Usage |  | Unit Cost (in Rs.) |  |  |
|  | A | 1100 |  | 2 |  |  |
|  | B | 600 |  | 40 |  |  |
|  | C | 100 |  | 4 |  |  |
|  | D | 1300 |  | 1 |  |  |
|  | E | 100 |  | 60 |  |  |
|  | F | 10 |  | 25 |  |  |
|  | G | 100 |  | 2 |  |  |
|  | H | 1500 |  | 2 |  |  |
|  | I | 200 |  | 2 |  |  |
|  | J | 500 |  | 1 |  |  |

