Name:

**Enrolment No:** 

# UPES

#### UNIVERSITY OF PETROLEUM AND ENERGY STUDIES

#### **Online End term Examination, Jan 2021**

Course: Business Modelling with Spreadsheets Programme: MBA(Business Analytics) Max. Marks: 100 Semester: I Time: 03 hrs Course Code: DSBA7001

### SECTION A

## Each Question will carry 5 Marks

| S. No. |  | Marks | CO  |
|--------|--|-------|-----|
|        | Select the most appropriate  | (5x6) |     |
| Q 1.   | The formula to add the number in cell A3 with the number in cell A4 is<br>a. sum (A3 + A4)<br>b. sum (A3:A4)<br>c. sum (A3; A4)<br>d. =avg (A3: A4)                        |       | CO1 |
| Q 2.   | <ul><li>When a new Spreadsheet is opened, at the top of window you've a</li><li>a. Menu bar</li><li>b. Object bar</li><li>c. Formula bar</li><li>d. Function bar</li></ul> |       | CO1 |
| Q 3.   | A continuous group of cells in a worksheet is called as<br>a. Grid<br>b. Range<br>c. Function<br>d. Address  |       | CO1 |
| Q 4.   | The function used to find the square root of a number is<br>a. SQT<br>b. SQR<br>c. SQRT<br>d. SRQT   |       | CO1 |

| Q 5.<br>Q 6. | <ul><li>a. Insert cells of</li><li>b. Insert colum</li><li>c. Insert rows</li><li>d. Insert cells r</li></ul> | INS   | -                                  | ells can contain |                |        | CO1<br>CO1 |
|--------------|---|---|------------------------------------|------------------|----------------|--------|------------|
|              | d. Strings  |   |                                    |                  |                |        |            |
|              |   |   | SECTION B                          |                  |                |        |            |
| Q 7.         | -   | will carry 10 marks   |                                    |                  |                | (10x5) |            |
|              | decided wheth<br>frequent travel  | ng office at Kolkata to b<br>her to operate from the<br>ling or else establishing<br>s of two alternatives are a<br>States of Nature<br>(i)Increase in demand | existing office a the office at Ko | at Delhi & cov   | er the area by |        |            |
|              | A. Operate from Delhi   | (i)No appreciable<br>change   | 0.7                                | 20<br>15         |                |        |            |
|              | B. Open<br>office at  | (i)Increase in demand<br>by 30%   | 0.6                                | 30               |                |        | CO2        |
|              | Kolkata   | (ii)No appreciable change   | 0.4                                | -7               |                |        |            |
|              |   |   |                                    |                  |                |        |            |

|       | Name<br>Aman<br>Rishi<br>Rohit<br>Ayush<br>Ajay<br>Ajit<br>Raman<br>Sakshi<br>Himani<br>Saurbh          |   |  |                   | 6<br>77<br>55<br>77<br>88<br>66 | 8<br>6<br>8<br>8<br>2 | ting<br>45<br>48<br>58<br>63<br>40<br>55<br>90<br>71<br>60<br>42 | HR<br>3<br>4<br>7<br>5<br>6<br>9<br>5<br>6<br>6<br>2 | 9<br>7<br>2<br>6<br>3<br>0<br>8 | CO2 |
|-------|---|---|--|-------------------|---------------------------------|-----------------------|--|--|---------------------------------|-----|
| Q 9.  | sement<br>Exp(in<br>lakh)   | 40<br>38  | in crores o<br>50<br>60  |                   | 60<br>70                        | 65<br>60              | b of rupee   50 48   | s) and the 35 30 30                                  | eir                             | CO3 |
| Q 10. | . In a certain g<br>choices P and Q<br>Choices<br>L,P<br>L,Q<br>M,P<br>M,Q<br>N,P<br>N,Q<br>Find saddle | Q. Payments to<br>Payments<br>A pay<br>B pay<br>A pay<br>B pay<br>B pay<br>B pay<br>B pay | o be made acco<br>ents<br>s B Rs 3<br>s A Rs 3<br>s B Rs 2<br>s A Rs 4<br>s A Rs 2<br>s A Rs 2<br>s A Rs 3 | ording to the cho | oice made.                      |                       |  | ible   |                                 | CO3 |

| Q 11. | different machines  | $\mathbf{A}^{"}\mathbf{A}^{"}$ and $\mathbf{B}^{"}\mathbf{B}^{"}\mathbf{f}$                                     |  |  | alternatives of two its selection:   |        |     |  |
|-------|---|---|--|--|--|--------|-----|--|
|       | Cost of capital(r) :  |   |  |  |  |        |     |  |
|       | Initial cost of equip   | pment "A": Rs.  | 12,000   |  |  |        |     |  |
|       | Initial cost of equip   |   |  |  |  |        |     |  |
|       | Years   |   | Cash inflow (CF) after tax   |  |  |        |     |  |
|       |   |   | Machine-A  |  | Machine-B  |        |     |  |
|       | CF 1  |   | 3560   |  | 1870   |        | CO3 |  |
|       | CF 2  |   | 3890   |  | 2400   |        |     |  |
|       | CF 3  |   | 2465   |  | 7650   |        |     |  |
|       | CF 4  |   | 4530   |  | 3540   |        |     |  |
|       | CF 5  |   | 5670   |  | 8320   |        |     |  |
|       | Sum   |   | 20115  |  | 23780  |        |     |  |
|       |   |   | SECTI  | UN-C   |  |        |     |  |
|       | Each Question ca  | rries 20 Mark   |  |  |  | (20x1) |     |  |
| Q 12. | A firm produces   | three products<br>e required to m   | s<br>. These production anufacture one   | ts are proces<br>unit of each of                                       | sed on three different<br>f the three products and<br>below:                   | t      |     |  |
| Q 12. | A firm produces machines. The time  | three products<br>e required to m<br>of the three ma  | s<br>. These production<br>anufacture one<br>chines are given                        | ts are proces<br>unit of each of                                       | f the three products and<br>below:   | t      |     |  |
| Q 12. | A firm produces<br>machines. The time<br>the daily capacity of                  | three products<br>e required to m<br>of the three ma<br>Time per unit (N  | s<br>. These product<br>anufacture one<br>chines are given<br>Minutes)               | ets are proces<br>unit of each of<br>n in the table b                  | f the three products and below:<br>Machine Capacity                            | t      |     |  |
| Q 12. | A firm produces<br>machines. The time<br>the daily capacity of<br>Machine       | three products<br>e required to m<br>of the three ma  | s<br>These production<br>anufacture one<br>chines are given<br>Minutes)<br>Product 2 | ets are proces<br>unit of each of<br>n in the table b<br>Product 3     | f the three products and<br>below:<br>Machine Capacity<br>(minutes/day)        | t      |     |  |
| Q 12. | A firm produces<br>machines. The time<br>the daily capacity of<br>Machine<br>M1 | three products<br>e required to m<br>of the three ma<br><u>Time per unit (N</u><br><u>Product 1</u><br><u>2</u> | s<br>. These product<br>anufacture one<br>chines are given<br>Minutes)               | ts are proces<br>unit of each of<br>n in the table t<br>Product 3<br>2 | f the three products and<br>below:<br>Machine Capacity<br>(minutes/day)<br>440 | t      | 604 |  |
| Q 12. | A firm produces<br>machines. The time<br>the daily capacity of<br>Machine       | three products<br>e required to m<br>of the three ma<br>Time per unit (N  | s<br>These production<br>anufacture one<br>chines are given<br>Minutes)<br>Product 2 | ets are proces<br>unit of each of<br>n in the table b<br>Product 3     | f the three products and<br>below:<br>Machine Capacity<br>(minutes/day)        | t      | CO4 |  |