| Name: <br> Enrolment No: |  |  |  |
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| UNIVERSITY OF PETROLEUM AND ENERGY STUDIES |  |  |  |
| Online End term Examination, Jan 2021 |  |  |  |
| Course: Spreadsheet Modelling <br> Programme: MBA(Core) <br> Max. Marks: 100 |  | DSBA7 |  |
| 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. $\operatorname{sum}(\mathrm{A} 3+\mathrm{A} 4)$ <br> b. sum (A3:A4) <br> c. $\operatorname{sum}(A 3 ; A 4)$ <br> d. $=\operatorname{avg}$ (A3: A4) |  | CO1 |
| Q 2. | When a new Spreadsheet is opened, at the top of window you've a <br> a. Menu bar <br> b. Object bar <br> c. Formula bar <br> d. Function bar |  | CO1 |
| Q 3. | A continuous group of cells in a worksheet is called as $\qquad$ <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 $\qquad$ <br> a. SQT <br> b. SQR <br> c. SQRT <br> d. SRQT |  | $\mathrm{CO1}$ |


| Q 5. | An empty row can be inserted in a worksheet using .... <br> a. Insert cells down icon <br> b. Insert columns <br> c. Insert rows <br> d. Insert cells right icon <br> The power of the spread sheet lies in the fact that the cells can contain $\qquad$ <br> a. Formulea <br> b.Data <br> c. Numbers <br> d. Strings |  |  |  |  | $\mathrm{CO1}$ CO1 |
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| SECTION B |  |  |  |  |  |  |
|  | Each question will carry 10 marks |  |  |  | (10x5) |  |
| Q 7. | A trading company of Delhi is considering expansion of its activities \& planning to open a marketing office at Kolkata to boost the sales in West Bengal region. It is to be decided whether to operate from the existing office at Delhi \& cover the area by frequent travelling or else establishing the office at Kolkata. The connected pay-offs \& probabilities of two alternatives are as under: |  |  |  |  | CO 2 |
|  | Alternative <br> s | States of Nature | Probability | Pay-off(Rs <br> Lakhs) |  |  |
|  | A. Operate from Delhi | (i)Increase in demand by $30 \%$ | 0.7 | 20 |  |  |
|  |  | (ii)No appreciable change | 0.3 | 15 |  |  |
|  | B. Open office at Kolkata | (i)Increase in demand by $30 \%$ | 0.6 | 30 |  |  |
|  |  | (ii)No appreciable change | 0.4 | -7 |  |  |



| Q 11. | A company wants to purchase a machine for which it have two alternatives of two different machines "A" and " B " from the data given below for its selection: <br> Cost of capital(r): 12\% <br> Initial cost of equipment "A": Rs.12,000 <br> Initial cost of equipment "B": Rs.20,500 <br> Which machine should the company purchase on the basis of present value method? |  | CO3 |
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|  | SECTION-C |  |  |
|  | Each Question carries 20 Marks | (20x1) |  |
| Q 12. | A firm produces three products. These products are processed on three different machines. The time required to manufacture one unit of each of the three products and the daily capacity of the three machines are given in the table below: <br> It is required to determine the daily number of units to be manufactured for each product. The profit per unit for product 1, 2 and 3 is Rs. 4, Rs. 3 and Rs. 6 respectively. It is assumed that all the amounts produced are consumed in the market. Formulate the mathematical (L.P.) model that will maximise the daily profit.Find product quantity for each product and overall profit using solver. |  | CO4 |

