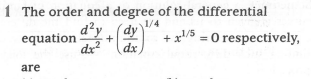
**Expert ID/Name: Nstructive**

**Date: 04-Nov-2020**

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**Answer:**

|  |
| --- |
| MCQ Type Answers |
| Choices   1. 2 and 4 2. 2 and 2 3. 2 and 3 4. 3 and 3 |
| Correct Answer:  (a) 2 and 4  Given : differential equation is  To find : The order and degree of the differential equation  Explanation:-  **Order is the highest derivative occurring in the differential equation.**  **Degree is the highest order derivative in the differential equation.** |
| Step 1:   |  |  | | --- | --- | | Instruction | Make the subject as by using the transformation rules and apply the power on both sides. | | Calculation |  | |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Step 2:   |  |  | | --- | --- | | Instruction | **Order is the highest derivative occurring in the differential equation.**  **Degree is the highest order derivative in the differential equation** | | Calculation | In highest order derivative is  .  Therefore, order of  The power of  in is | |
| Final Answer  Option-(a) is correct. |

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