**Single Correct Choice**

|  |  |
| --- | --- |
| Subject | Maths |
| Question English | Which of the following is not a periodic function |
| Question\_hindi |   |
| Question image |  |
| Question Type | single\_choice |
| Option1 English |  |
| Option1 hindi |  |
| Option2 English |  |
| Option 2 Hindi |  |
| Option3 English |  |
| Option 3 Hindi |  |
| Option4 English |  |
| Option4 Hindi |  |
| Solution English |  |
| Solution Hindi |  |
| Correct Marks | 3 |
| Incorrect Marks | 1 |
| Correct Answer  | B |

|  |  |
| --- | --- |
| Subject | Maths |
| Question English | The period of  is |
| Question\_hindi |   |
| Question image |  |
| Question Type | single\_choice |
| Option1 English |  |
| Option1 hindi |  |
| Option2 English |  |
| Option 2 Hindi |  |
| Option3 English |  |
| Option 3 Hindi |  |
| Option4 English |  |
| Option4 Hindi |  |
| Solution English |  |
| Solution Hindi |  |
| Correct Marks | 3 |
| Incorrect Marks | 1 |
| Correct Answer  | B |

|  |  |
| --- | --- |
| Subject | Maths |
| Question English | The range of the function  is |
| Question\_hindi |   |
| Question image |  |
| Question Type | single\_choice |
| Option1 English |  |
| Option1 hindi |  |
| Option2 English |  |
| Option 2 Hindi |  |
| Option3 English |  |
| Option 3 Hindi |  |
| Option4 English |  |
| Option4 Hindi |  |
| Solution English |  |
| Solution Hindi |  |
| Correct Marks | 3 |
| Incorrect Marks | 1 |
| Correct Answer  | B |

|  |  |
| --- | --- |
| Subject | Maths |
| Question English | The function , is |
| Question\_hindi |   |
| Question image |  |
| Question Type | single\_choice |
| Option1 English | neither an even nor an odd function |
| Option1 hindi |  |
| Option2 English | an even function |
| Option 2 Hindi |  |
| Option3 English | an odd function |
| Option 3 Hindi |  |
| Option4 English | a periodic function |
| Option4 Hindi |  |
| Solution English |  |
| Solution Hindi |  |
| Correct Marks | 3 |
| Incorrect Marks | 1 |
| Correct Answer  | C |

|  |  |
| --- | --- |
| Subject | Maths |
| Question English | Domain of definition of the function |
| Question\_hindi |   |
| Question image |  |
| Question Type | single\_choice |
| Option1 English |  |
| Option1 hindi |  |
| Option2 English |  |
| Option 2 Hindi |  |
| Option3 English |  |
| Option 3 Hindi |  |
| Option4 English |  |
| Option4 Hindi |  |
| Solution English |  |
| Solution Hindi |  |
| Correct Marks | 3 |
| Incorrect Marks | 1 |
| Correct Answer  | A |

|  |  |
| --- | --- |
| Subject | Maths |
| Question English | If  satisfies , for all ,  and , then  is  |
| Question\_hindi |   |
| Question image |  |
| Question Type | single\_choice |
| Option1 English |  |
| Option1 hindi |  |
| Option2 English |  |
| Option 2 Hindi |  |
| Option3 English |  |
| Option 3 Hindi |  |
| Option4 English |  |
| Option4 Hindi |  |
| Solution English |  |
| Solution Hindi |  |
| Correct Marks | 3 |
| Incorrect Marks | 1 |
| Correct Answer  | A |

|  |  |
| --- | --- |
| Subject | Maths |
| Question English | If , then the value of  is |
| Question\_hindi |   |
| Question image |  |
| Question Type | single\_choice |
| Option1 English | 1 |
| Option1 hindi |  |
| Option2 English |  |
| Option 2 Hindi |  |
| Option3 English |  |
| Option 3 Hindi |  |
| Option4 English | n |
| Option4 Hindi |  |
| Solution English |  |
| Solution Hindi |  |
| Correct Marks | 3 |
| Incorrect Marks | 1 |
| Correct Answer  | A |

|  |  |
| --- | --- |
| Subject | Maths |
| Question English |  |
| Question\_hindi |   |
| Question image |  |
| Question Type | single\_choice |
| Option1 English |  |
| Option1 hindi |  |
| Option2 English |  |
| Option 2 Hindi |  |
| Option3 English |  |
| Option 3 Hindi |  |
| Option4 English |  |
| Option4 Hindi |  |
| Solution English |  |
| Solution Hindi |  |
| Correct Marks | 3 |
| Incorrect Marks | 1 |
| Correct Answer  | A |

|  |  |
| --- | --- |
| Subject | Maths |
| Question English |  |
| Question\_hindi |   |
| Question image |  |
| Question Type | single\_choice |
| Option1 English | 9 |
| Option1 hindi |  |
| Option2 English | 10 |
| Option 2 Hindi |  |
| Option3 English | 18 |
| Option 3 Hindi |  |
| Option4 English | 20 |
| Option4 Hindi |  |
| Solution English |  |
| Solution Hindi |  |
| Correct Marks | 3 |
| Incorrect Marks | 1 |
| Correct Answer  | C |

|  |  |
| --- | --- |
| Subject | Maths |
| Question English |  |
| Question\_hindi |   |
| Question image |  |
| Question Type | single\_choice |
| Option1 English |  |
| Option1 hindi |  |
| Option2 English |  |
| Option 2 Hindi |  |
| Option3 English |  |
| Option 3 Hindi |  |
| Option4 English | None of these |
| Option4 Hindi |  |
| Solution English |  |
| Solution Hindi |  |
| Correct Marks | 3 |
| Incorrect Marks | 1 |
| Correct Answer  | A |

|  |  |
| --- | --- |
| Subject | Maths |
| Question English |  equal |
| Question\_hindi |   |
| Question image |  |
| Question Type | single\_choice |
| Option1 English | 1 |
| Option1 hindi |  |
| Option2 English |  |
| Option 2 Hindi |  |
| Option3 English |  |
| Option 3 Hindi |  |
| Option4 English |  |
| Option4 Hindi |  |
| Solution English |  |
| Solution Hindi |  |
| Correct Marks | 3 |
| Incorrect Marks | 1 |
| Correct Answer  | B |

|  |  |
| --- | --- |
| Subject | Maths |
| Question English | Let . If  , then one of the possible values of , is |
| Question\_hindi |   |
| Question image |  |
| Question Type | single\_choice |
| Option1 English | 64 |
| Option1 hindi |  |
| Option2 English | 15 |
| Option 2 Hindi |  |
| Option3 English | 16 |
| Option 3 Hindi |  |
| Option4 English | 63 |
| Option4 Hindi |  |
| Solution English |  |
| Solution Hindi |  |
| Correct Marks | 3 |
| Incorrect Marks | 1 |
| Correct Answer  | A |

|  |  |
| --- | --- |
| Subject | Maths |
| Question English | If , then  |
| Question\_hindi |   |
| Question image |  |
| Question Type | single\_choice |
| Option1 English | 2 |
| Option1 hindi |  |
| Option2 English | 1 |
| Option 2 Hindi |  |
| Option3 English | 3 |
| Option 3 Hindi |  |
| Option4 English | 4 |
| Option4 Hindi |  |
| Solution English |  |
| Solution Hindi |  |
| Correct Marks | 3 |
| Incorrect Marks | 1 |
| Correct Answer  | A |

|  |  |
| --- | --- |
| Subject | Maths |
| Question English | The value of  is |
| Question\_hindi |   |
| Question image |  |
| Question Type | single\_choice |
| Option1 English |  |
| Option1 hindi |  |
| Option2 English |  |
| Option 2 Hindi |  |
| Option3 English |  |
| Option 3 Hindi |  |
| Option4 English |  |
| Option4 Hindi |  |
| Solution English |  |
| Solution Hindi |  |
| Correct Marks | 3 |
| Incorrect Marks | 1 |
| Correct Answer  | A |

|  |  |
| --- | --- |
| Subject | Maths |
| Question English |  |
| Question\_hindi |   |
| Question image |  |
| Question Type | single\_choice |
| Option1 English |  |
| Option1 hindi |  |
| Option2 English |  |
| Option 2 Hindi |  |
| Option3 English |  |
| Option 3 Hindi |  |
| Option4 English |  |
| Option4 Hindi |  |
| Solution English |  |
| Solution Hindi |  |
| Correct Marks | 3 |
| Incorrect Marks | 1 |
| Correct Answer  | A |

|  |  |
| --- | --- |
| Subject | Maths |
| Question English |  (where  denotes greatest integer less than or equal to x) |
| Question\_hindi |   |
| Question image |  |
| Question Type | single\_choice |
| Option1 English | has value -1 |
| Option1 hindi |  |
| Option2 English | has value 0 |
| Option 2 Hindi |  |
| Option3 English | has value 1 |
| Option 3 Hindi |  |
| Option4 English | does not exist |
| Option4 Hindi |  |
| Solution English |  |
| Solution Hindi |  |
| Correct Marks | 3 |
| Incorrect Marks | 1 |
| Correct Answer  | A |

|  |  |
| --- | --- |
| Subject | Maths |
| Question English | If , the value of  is |
| Question\_hindi |   |
| Question image |  |
| Question Type | single\_choice |
| Option1 English |  |
| Option1 hindi |  |
| Option2 English | 0 |
| Option 2 Hindi |  |
| Option3 English |  |
| Option 3 Hindi |  |
| Option4 English |  |
| Option4 Hindi |  |
| Solution English |  |
| Solution Hindi |  |
| Correct Marks | 3 |
| Incorrect Marks | 1 |
| Correct Answer  | D |

|  |  |
| --- | --- |
| Subject | Maths |
| Question English | Let  and their  derivatives ,  exist and are not equal for some n. Further if  then the value of  is |
| Question\_hindi |   |
| Question image |  |
| Question Type | single\_choice |
| Option1 English | 0 |
| Option1 hindi |  |
| Option2 English | 4 |
| Option 2 Hindi |  |
| Option3 English | 2 |
| Option 3 Hindi |  |
| Option4 English | 1 |
| Option4 Hindi |  |
| Solution English |  |
| Solution Hindi |  |
| Correct Marks | 3 |
| Incorrect Marks | 1 |
| Correct Answer  | B |

|  |  |
| --- | --- |
| Subject | Maths |
| Question English |  is |
| Question\_hindi |   |
| Question image |  |
| Question Type | single\_choice |
| Option1 English |  |
| Option1 hindi |  |
| Option2 English |  |
| Option 2 Hindi |  |
| Option3 English | 0 |
| Option 3 Hindi |  |
| Option4 English |  |
| Option4 Hindi |  |
| Solution English |  |
| Solution Hindi |  |
| Correct Marks | 3 |
| Incorrect Marks | 1 |
| Correct Answer  | D |

|  |  |
| --- | --- |
| Subject | Maths |
| Question English | If , then the values of  and , are |
| Question\_hindi |   |
| Question image |  |
| Question Type | single\_choice |
| Option1 English |  |
| Option1 hindi |  |
| Option2 English |  |
| Option 2 Hindi |  |
| Option3 English |  |
| Option 3 Hindi |  |
| Option4 English |  and  |
| Option4 Hindi |  |
| Solution English |  |
| Solution Hindi |  |
| Correct Marks | 3 |
| Incorrect Marks | 1 |
| Correct Answer  | B |

**Integer Choice**

|  |  |
| --- | --- |
| Subject | Maths |
| Question English |  Let  be a polynomial of degree 3 such that  for . Then the value of   is equal to. |
| Question\_hindi |   |
| Question image |  |
| Question Type | integer |
| Solution English |  |
| Solution Hindi |   |
| Correct Marks | 3 |
| Incorrect Marks | 1 |
| Correct Answer  | 26 |

|  |  |
| --- | --- |
| Subject | Maths |
| Question English |  For , consider the real valued function   and . Let  and  be in an arithmetic progression with mean  and positive common difference. If  for all , then the absolute difference between the roots of  is: |
| Question\_hindi |   |
| Question image |  |
| Question Type | integer |
| Solution English |  |
| Solution Hindi |   |
| Correct Marks | 3 |
| Incorrect Marks | 1 |
| Correct Answer  | 8 |

|  |  |
| --- | --- |
| Subject | maths |
| Question English | Let  denote the greatest integer less than or equal to . Then the value of  is \_\_\_\_\_. |
| Question\_hindi |   |
| Question image |  |
| Question Type | integer |
| Solution English |  |
| Solution Hindi |   |
| Correct Marks | 3 |
| Incorrect Marks | 1 |
| Correct Answer  | 1 |

|  |  |
| --- | --- |
| Subject | Maths |
| Question English |  Let  and  denote the fractional part of x and the greatest integer  respectively of a real number . If  and  are three consecutive terms of a G.P., then  is equal to \_\_\_\_. |
| Question\_hindi |   |
| Question image |  |
| Question Type | integer |
| Solution English |  |
| Solution Hindi |   |
| Correct Marks | 3 |
| Incorrect Marks | 1 |
| Correct Answer  | 21 |

|  |  |
| --- | --- |
| Subject | Maths |
| Question English |  is equal to \_\_\_\_\_\_\_. |
| Question\_hindi |   |
| Question image |  |
| Question Type | integer |
| Solution English |  |
| Solution Hindi |   |
| Correct Marks | 3 |
| Incorrect Marks | 1 |
| Correct Answer  | 36 |

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