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| **Text  Description automatically generated** | | | | |
| **PT1/MAQP/1122/A 27-JUN-2022** | | | | |
| **PERIODIC TEST – I (2022-23)** | | | | |
| **Subject: Mathematics**  **Grade: 11** | | Max. Marks: 35Time: 1 Hour 20 Minutes | | |
| **Name:** | | | **Section:** | **Roll No:** |
| **General Instructions:**   * **Section A carries 6 questions of 2marks each** * **Section B carries 5 questions of 3 marks each.** * **Section C carries 2 questions 4 marks each** | | | | |
| **Section – A (2 marks)** | | | | |
| **1** | If A=. Write the Power set of A? | | | |
| **2** | Write the set B in set-builder form if B= | | | |
| **3** | If n(A-B) =10, n(B-A) =8 and n (A. Find a) n (A (b) n(A) | | | |
| **4** | What is the smallest positive integral values of n for which | | | |
| **5** | Find the modulus of ( ) | | | |
| **6** | If . Find x and y? | | | |
| **Section – B (3 marks)** | | | | |
| **7** | If ; A= {x: x is a prime number}; B= {x: x is a factor of 24}.  Find (a) (b) A-B (c) n(A | | | |
| **8** | If ; A= {x: x is a prime number }; B= {x: x= 4}.  C= {x: x is a perfect cube Find .  Also Represent the above sets using a Venn diagram and justify your answer | | | |
| **9** | If z be a complex number and . Then find z? | | | |
| **10** | If a+ib = | | | |
| **11** | If . Find x- y | | | |
|  | **Section – C (4 marks)** | | | |
| **12** | If | | | |
| **13** | Image result for pic related to a university and class roomsImage result for pic related to a university and class rooms  In a university, out of 100 students 15 offered Mathematics only; 12 offered Statistics only;8 offered only Physics; 40 offered Physics and Mathematics; 20 offered Physics and Statistics 10 offered Mathematics and Statistics; 65 offered Physics. By drawing a Venn diagram find the number of students who   1. Offered Mathematics 2. did not offer any of the above three subjects. | | | |

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