|  |  |  |
| --- | --- | --- |
| **Text  Description automatically generated** | | |
| **PT1/MAAK/1122/A 27-JUN-2022** | | |
| **PERIODIC TEST – I (2022-23)** | | |
| **Subject: Mathematics (ANSWER KEY)**  **Grade: 11** | |  |
| **Section – A(2 marks)** | | |
| **1** | A= {-1,0,1} 1 mark  P(A) = {{-1},{0},{1},{-1,0},{-1,1},{0,1},{-1,0,1},{ }} 1 mark | |
| **2** | B= 1 mark for expression +1 mark for format | |
| **3** | n(A 1 n(A)= 13 1 | |
| **4** | 1 mark  2n=4, hence n=2 1 mark | |
| **5** | 2i 1 mark  2 1 mark | |
| **6** | x-2=4 , i.e x=6 1 mark  y-3=-2. i.e, y=1 1 mark | |
| **Section – B(3 marks)** | | |
| **7** | A= {2,3,5,7} ; B = { 1,2,3,4,6,8} AUB={1,2,3,4,5,6,7,8}  ={9,10}(b) A-B={5,7}(c) n(A 1+1+1 | |
| **8** | A={2,3} ; B= {2,4,8} ; C= {1,8}  1 mark + 1 mark for venn d +1 mark for shade | |
| **9** | Let Z=a+ib ; 1 mark  1 mark  b=-2 & a=3/2 z= 3/2-i2 1 mark | |
| **10** | a+ib = 1 mark  a+ib = 1+1 | |
| **11** | 1+1  x-y= -2/5 1 | |
|  | **Section – C(4 marks)** | |
| **12** | 1  ; 2  1 | |
| **13** | n(P)=65  68-x=65; x=3   1. n(M)= 65-x=62 2. n= 1 | |

\*\*\*