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| **Text  Description automatically generated** | | |
| **FT/MAQP/1123/A 08-JUN-2023** | | |
| **FIRST TERM EXAMINATION ANSWER KEY 2023-24** | | |
| **SUBJECT: MATHEMATICS (ANSWEE KEY)**  **GRADE: XI** | | **MAX MARKS: 80**  **TIME : 3 hrs** |
| **SECTION A (1 Mark)** | | |
| 1 | d | |
| 2 | a | |
| 3 | c | |
| 4 | a | |
| 5 | b | |
| 6 | b | |
| 7 | b | |
| 8 | c | |
| 9 | b | |
| 10 | d | |
| 11 | a | |
| 12 | c | |
| 13 | a | |
| 14 | a | |
| 15 | b | |
| 16 | c | |
| 18 | a | |
| 19 | a | |
| 20 | a | |
| **SECTION B (2 marks)** | | |
| 21 |  | |
| 22 | If the number is purely real then | |
| 23 |  | |
| 24 | Domain = {1, 2, 3} and Range = {5, 6} | |
| 25 |  | |
| **SECTION C (3 marks)** | | |
| 26 | = | |
| 27 |  | |
| 28 | + i | |
| 29 |  | |
| 30 |  | |
| 31 | If a function f from **R** to **R** is defined by , find the values of a and b given that (a, 4) and (1, b) belong to f. [ | |
| **SECTION D (4 marks)** | | |
| 32 |  | |
| 33 |  | |
| 34 |  | |
| **SECTION E (5 marks)** | | |
| 35 | If | |
| 36 | If | |
| 37 | (i)Number of boys who play at least one of the games = 774  (ii)Number of boys who play none of the games = 1020 – 774 =246  (iii)Number of boys playing football but not cricket =158  (iv)Number of boys playing only hockey =210  (v)Number of boys playing cricket but not hockey =326 | |
| 38 | With working:   1. Domain = R, Range = 2. Domain = R, Range = | |