|  |  |
| --- | --- |
| **Text  Description automatically generated** | |
| **FT/MAAK/1223/B 15-JUN-2023** | |
| **FIRST TERM EXAMINATION - (2023-24)** | |
| **Subject: Mathematics(Answer Key)**  **Grade: XII** | **Max. Marks:80**  **Time:3hrs** |

|  |  |
| --- | --- |
| **SECTION A**  **(Multiple Choice Questions) Each question carries 1 mark** | |
| **1.** | d |
| **2.** | d |
| **3.** | c |
| **4.** | c |
| **5.** | d |
| **6.** | c |
| **7.** | c |
| **8.** | a |
| **9.** | b |
| **10.** | d |
| **11.** | d |
| **12.** | b |
| **13.** | d |
| **14.** | a |
| **15.** | b |
| **16.** | a |
| **17.** | c |
| **18.** | a |
|  | **ASSERTION-REASON BASED QUESTIONS**  In the following questions, a statement of assertion (A) is followed by a statement of  Reason (R). Choose the correct answer out of the following choices.  (a) Both A and R are true and R is the correct explanation of A.  (b) Both A and R are true but R is not the correct explanation of A.  (c) A is true but R is false.  (d) A is false but R is true. |
| **19.** | a |
| **20.** | a |
| **SECTION B**  **This section comprises of very short answer type-questions (VSA) of 2 marks each** | |
| **21.** |  |
| **22.** |  |
| **23.** |  |
| **24.** |  |
| **25.** |  |
|  | **SECTION C**  **(This section comprises of short answer type questions (SA) of 3 marks each)** |
| **26.** |  |
| **27.** |  |
| **28.** |  |
| **29.** |  |
| **30.** |  |
| **31.** |  |
|  | **SECTION D** |
| **32.** | (i)  (ii) |
| **33.** | (i)        (ii) |
| **34.** | So, f is one to one and onto. Hence, it is bijective function. |
|  | **SECTION E** |
| **35.** |  |
| **36.** | Therefore, |
| **37.** |  |
| **38.** |  |

\*\*\*