

## THE MOON.

The times at which the moon rises and sets, are both given for every day in the year. They are computed for the moon's centre, and those on pp. 6, 7, 8, for a station in Lat. 50° and Long. 46h. 4m. W. The corrections for latitude to be applied to the times of setting given in pp. 6, 7, 8, of the Calendar, in order to find the times at which the Moon sets at other stations, may be found approximately from Lat. 42° to Lat. 48°, by multiplying the numbers in the adjoining column by the numbers of degrees by which the Latitude exceeds 50°. If the Latitude be less than 45°, the signs of the corrections must be changed. The corrections for Latitude 49° and 50° will be more near to the truth, if the multipliers (which according to the preceding rule would be 4 and 5) be taken as 4½ and 5½.

The corrections for Latitude to be applied to the times of rising are the same as those used for setting, but with the signs changed.

In strictness, two corrections for longitude are required,—one due to the motion of the moon in Right Ascension during the interval that elapses between her rising (or setting) at stations in different longitudes; and

the other due to the change in the Moon's declination during the same interval. The average value of the first of these corrections is about two minutes to be added for each hour or for each fifteen degrees of longitude west of the central meridian, 4h. 46m; the corrections being subtracted when the place is to the east of the central meridian.

The correction for change of declination may be disregarded.

The last column in each month on pp. 6, 7, 8, shews the time to which a watch should be set when the sun is due south, or when the shadow falls on the moon mark of a sun dial.

The times of the rising and setting of the sun and moon on pp. 6, 7, 8, without modification, will serve with sufficient exactness for Halifax, Montreal and Ottawa; and by the rules given above they may be adapted to all other stations. On pp. 9, 10, 11, 12, 13, 14, special tables are also given, shewing the local civil times at which the sun and moon rise and set at Toronto and Fort Garry, two extreme stations as regards latitude.

## JEWISH CALENDAR FOR 1876.

| 5636                                                                         | 1876.                                  | 5646.                                                                                                         | 1876.                                                                                                                         |
|------------------------------------------------------------------------------|----------------------------------------|---------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| Sebat..... Jan. 27                                                           |                                        | Ab..... July 22                                                                                               |                                                                                                                               |
| Adar..... Feb. 25, 26                                                        |                                        | Elul..... Aug. 20, 21                                                                                         | Fast—Destruction of [the Temple]                                                                                              |
| " 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31 | Fast of Esther..... Purim              | 5637.                                                                                                         |                                                                                                                               |
| Nissan..... March 26                                                         | Passover                               | Sept. 19, 20                                                                                                  | New York Feast.                                                                                                               |
| " 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31         | First two days of Last two days of do. | " 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31 | Fast of Geosallah. Fast, Day of Atonement. First 2 days of Taber. Hosanna Rabs (nacles) Feast of Eight Day. Feast of the Law. |
| Iyar..... May 24                                                             | Lag. L'Omer.                           | " 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31                                                                  |                                                                                                                               |
| Sivan..... June 23                                                           | Feast of Weeks.                        | Heaven..... Nov. 18, 19                                                                                       |                                                                                                                               |
| Tamuz..... July 9                                                            | Fast.                                  | Kislev..... Dec. 17, 18                                                                                       | Feast of Dedication.                                                                                                          |
| " 17                                                                         |                                        | Tebet..... " 18, 19                                                                                           |                                                                                                                               |

## SOVEREIGNS OF EUROPE, &amp;c.

|                              |                                         | Born.         | Accession.    |
|------------------------------|-----------------------------------------|---------------|---------------|
| Austria.....                 | Francis Joseph, Emperor.....            | 18 Aug. 1830  | 2 Dec. 1848   |
| Baden .....                  | Frederick W. L., Grand Duke.....        | 9 Sep. 1826   | 5 Sept. 1852  |
| Bavaria.....                 | Louis II., King.....                    | 25 Aug. 1845  | 10 Dec. 1865  |
| Belgium.....                 | Leopold II., King.....                  | 9 April 1835  | 7 April 1835  |
| Brazil (South America).....  | Pedro II., Emperor of.....              | 2 Dec. 1825   | 18 Nov. 1865  |
| Denmark.....                 | Christian IX., King.....                | 8 April 1818  | 10 June 1848  |
| England.....                 | Victoria, Queen.....                    | 24 May 1819   | 24 May 1837   |
| France.....                  | Marcel MacMahon, President.....         | 13 July 1830  | 28 June 1868  |
| Greece.....                  | George I., King of the Greeks.....      | 24 Dec. 1845  | 18 June 1868  |
| Hesse Darmstadt.....         | Louis III., Grand Duke.....             | 9 June 1807   | 17 Mar. 1849  |
| Holland.....                 | William III., King.....                 | 19 Feb. 1817  | 25 Mar. 1849  |
| Italy.....                   | Victor Emmanuel II., King.....          | 14 Mar. 1820  | 7 Mar. 1848   |
| Mecklenburg Schwerin.....    | Frederick Francis, Grand Duke.....      | 28 Feb. 1823  | 6 Sept. 1865  |
| Mecklenburg Strelitz.....    | Fred. Wm. Charles, Grand Duke.....      | 17 Oct. 1819  | 27 Feb. 1858  |
| Oldenburg.....               | Nicolas, Grand Duke.....                | 8 July 1827   | 11 Nov. 1861  |
| Portugal.....                | Dom Louis I., King.....                 | 31 Oct. 1858  | 2 Jan. 1861   |
| Prussia.....                 | William I., Emperor of Germany.....     | 22 Mar. 1797  | 18 June 1848  |
| Roman Church.....            | Pius IX., Pope.....                     | 18 May 1792   | 2 Mar. 1859   |
| Russia.....                  | Alexander II., Emperor.....             | 9 April 1818  | 29 Jan. 1855  |
| Saxe Coburg and Gotha.....   | Ernest II., Augustus Charles, Duke..... | 21 June 1818  | 30 Sept. 1866 |
| Saxe Meiningen.....          | George, Duke.....                       | 22 April 1826 | 9 July 1854   |
| Saxe Weimar.....             | Charles Alexander, Grand Duke.....      | 12 June 1815  | 9 Aug. 1854   |
| Saxony.....                  | John, King.....                         | 2 Dec. 1801   | Feb. 1874     |
| Spain.....                   | Alphonso I., King.....                  |               |               |
| Sweden and Norway.....       | Oscar II., King.....                    | 21 Jan. 1829  | 18 Sept. 1872 |
| Turkey.....                  | Abdul Aziz Khan, Sultan.....            | 9 Feb. 1800   | 6 June 1861   |
| United States (America)..... | U. S. Grant, President.....             | 27 April 1822 | 4 Mar. 1869   |
| Wurtemberg.....              | Chs. Frederick Alexander, King.....     | 6 Mar. 1824   | 25 June 1861  |