[illegible]

انکشاف ششم در معرفت وتر قوسی بازای دقایق

چون وتر ک درجه و ب درجه معلوم شد بحکم انکشاف دوم وتر فضل آنها که هشت درجه است نیز معلوم شود بحکم انکشاف سیوم وتر منصفات هشت درجه یعنی [illegible] و بحکم انکشاف چهارم وتر [illegible] دقیقه هم مستخرج شود و آن [illegible] و وتر ربع آن پنج دقیقه و پانزده ثانیه است نیز معلوم باشد و آن [illegible] و فرض کنیم قوس آب را یک دقیقه و پانزده ثانیه و قوس حب را یک دقیقه و وتر آب معلوم است و وتر حب مجهول و بحکم شکل ۲ از ۴ خزینه اول نسبت وتر آب سوی وتر حب اصغر باشد از نسبت قوس آنها

[illegible]

[illegible] باشد و چون وتر یک دقیقه باشد پس از عدد جیب که تا [illegible] اعظم
شد و باری از جیب عدد اصغر گردد پس موضع ثبوت که تفاوت وتر یک دقیقه باشد
تا مرتبه خامسه اصلا محسوس نباشد پس همان بود که وتر یک دقیقه باشد و اینجا
معلوم شد که اوتار قسی را که مادون دقیقه باشد اگر از تناسب قسی برآرند تفاوت محسوس
روی ندهد و چون وتر یک دقیقه معلوم شد بقوانین انکشاف سته متقدمه وتر هر قوس
مفروض مستخرج گردد و نیز اگر قوس مطلوب الوتر اکثر از نصف دور بوده باشد تمام آن قوس را دو بگیرند و وتر
آن برآرند که همان وتر وتر قوس عظمی نیز باشد * انکشاف هفتم در نقل اوتار بجیوب *
باید دانست که قدماء حکما مثل ابرخس و بطلیموس و غیرهما بنای اعمال هیئت و زیجات را بر جیب
اوتار مبنی داشته اند اما متاخران چون ابی ریحان بیرونی و خواجه نصیر الدین طوسی و
غیاث الدین جمشید و غیرهم برد الله مضجعهم تا زمانا بنای همان اعمال را بر جیوب میدارند
چراکه اعمال جیوبی ابسط و اوضح از اعمال اوتار است بالجمله چون در مقدمه معلوم شد که نصف هر قوس
مساوی نصف وتر دو چندان قوس می باشد پس جیب هر قوسی که مطلوب بود آنرا دو چند کنند
و بمقابله این مضاعف وتر معلوم کنند و آن وتر را تنصیف نمایند حاصل جیب آن قوس باشد مثال مطلوب
جیب درجه است بمضعف درجه فک میشود و وترش هست * قوله الباع الرنا *
نصف این وتر که نازما الطبخ نه ل است جیب * سه * درجه باشد
* انکشاف هشتم در معرفت مقدار سهم قوس مفروض *
تفاضل نو و نصف قوس مطلوب السهم بگیرند و جیب این تفاضل را از نصف قطر
بکاهند اگر قوس مطلوب السهم کمتر از نصف دور باشد و بر نصف قطر
بیفزایند اگر اکثر از نصف دور بود سهم بهم میرسد

نصف قطر کب است بکا هم لا محاله قدر ب ج مطلوب باقی می ماند و اگر مطلوب
مقدار سهم قوس اج باشد که زیاده از نصف دور است یعنی مقدار خط ج د
پس فاضل نصف که قوس اج است و تو دنیز قوس اج است و چون جیب
آنرا که بقدر ج د است بر ج ب نصف قطر می افزائیم ج د مطلوب بهم میرسد ❊

❊ انکشاف مبهم در ترتیب جداول جیوب ❊

وطریق اخذ جیب قوس مفروض وتقویس جیب مفروض از جدول بعمل تعدیل
مابین السطرین باید دانست که وضع جداول جیب بازای ما دون کسر دقایق
از توانی وغیره متعذر است چه اگر بضم توانی خواهند جدول آن در کمتر از یک
هزار و هشتاد ورق نگنجد پس بمقابله ثوالث وغیره چه رسد بالجمله بضم دقایق
با درجات جدول جیب را موضوع ساخته اند وآن اغلب در سی ورق یا بیشتر
ورقها تمام میشود هر ورق مشتمل می باشد بر جیب سه قوس یا پنج قوس متزاید
بیک یک درجه قسمی درجات فوق جدول ثبت می باشد و دقایق آن قسمی جانب
یمین جدول می نویسند مبتدا از صفر متنازلا وبجهت وسعت رقم از صفر تا بیست
ونه دقیقه در صفحه ایمن می باشد و از سی تا پنجاه و نه دقیقه در صفحه الیسر
وبمناسبت درجات و دقایق مذکور در متن جدول ارقام جیب
می باشد بالغ تا رابعه و بسیار خانهای جیب خانها مرتفاضل
می باشد که دران بیست رقم تفاضل دو جیب متوالی می نویسند

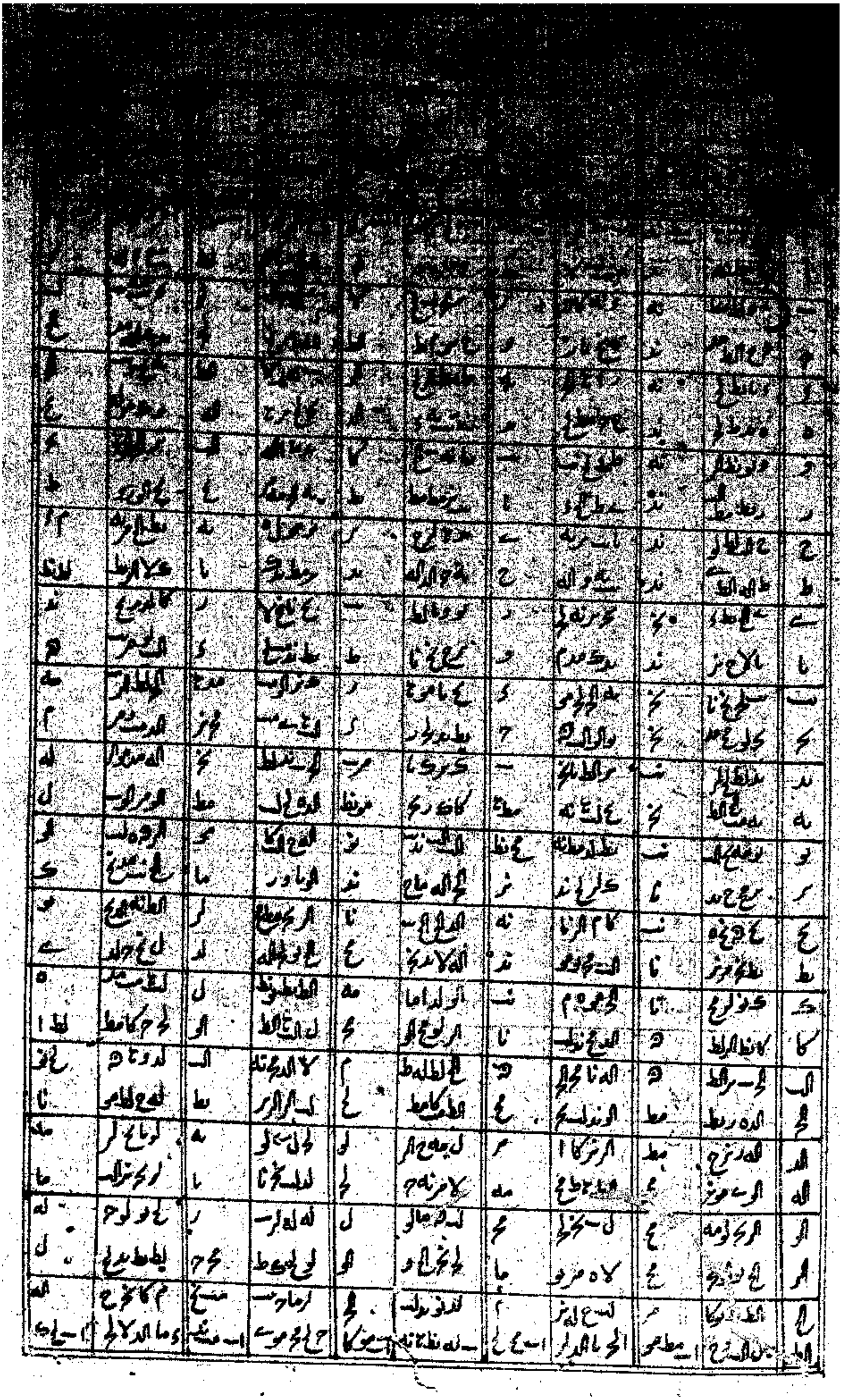
[illegible] باشد در تصحیح [illegible] عمل تعدیل ما بین الخطین کنند و آن
چنان است که اول [illegible] روایت [illegible] که در قوس [illegible] از جدول
جیب برآورده علیحده بنویسند و بقیه کسور را از توابع [illegible] باشد
در رقم تفاضل که محاذی جیب ماخوذ است ضرب کنند و حاصل را بر یک
دقیقه قسمت کنند یعنی یک بار مرفوع سازند و این خارج قسمت را بر جیب
ماخوذ افزایند مجموع مطلوب باشد مثال خواستیم که جیب * الله لط
صب لو * معلوم کنیم اول بمقابله * الو له * دقیقه از جدول جیب گرفتیم
بود * الو ه لط صو لط لو * و رقم تفاضل محاذی این جیب بود * نو ماح لو
بقیه رقم کسور قوس را که * لط ضب لو * است درین تفاضل زدیم شد
* لی مح نح لوح * این را یک مرتبه مرفوع کردیم شد مبلغ [illegible]
و چون مطلوب تا رابعه است ما دون رابعه را حذف کردیم شد * لی مط
این را بر جیب ماخوذ افزودیم شد جیب قوس مذکور * الو نا لو ن الح بد *
و اگر جیب معلوم باشد و قوس آن مجهول بود درین صورت عمل تقویس آن
جیب چنان است که از ارقام آن جیب را در متن جدول جویند *
اگر بعینه یافته شود در جائی که فوق جدول محاذی آن نوشته باشد مع دقایق
ایمن قوس آن باشد و اگر بعینه این رقم یافته نشود و قریب ترین ارقام جیب را
که در جدول بیابند ازین جهت مفروض نقصان کنند و بقیه را در یک دقیقه ضرب کرده
یکبار منحط نموده بر رقم تفاضلی که پیش از منقوص است قسمت کنند و خارج قسمت را بر درجه
و دقایق قوس جیب منقوص افزایند مطلوب حاصل شود مثال خواستیم که این ارقا
ید ماح الو لط نح بد منقوص کنیم در جدول جیب بعینه نیافتیم اما جیب قوس بد مح الح بد

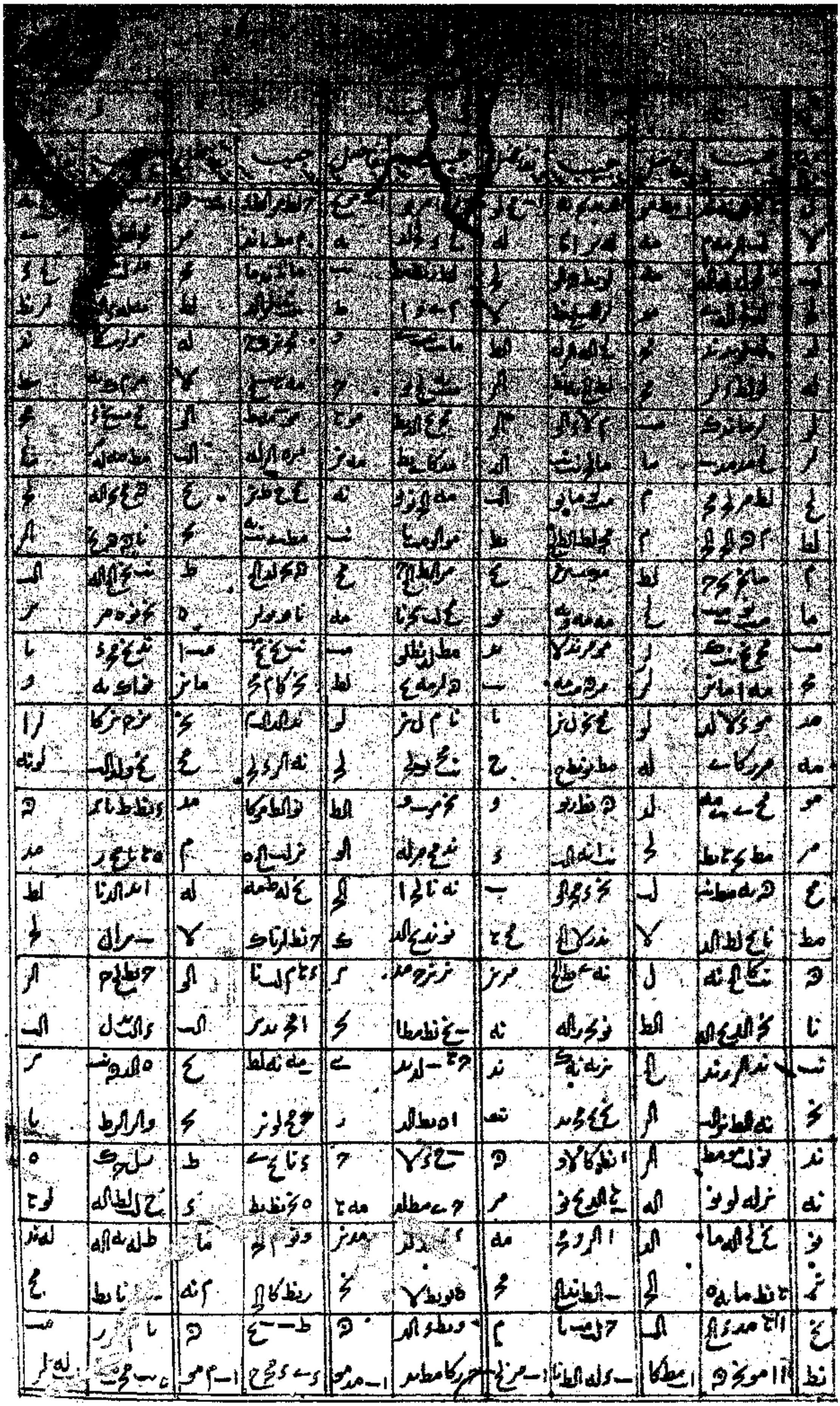
[illegible]

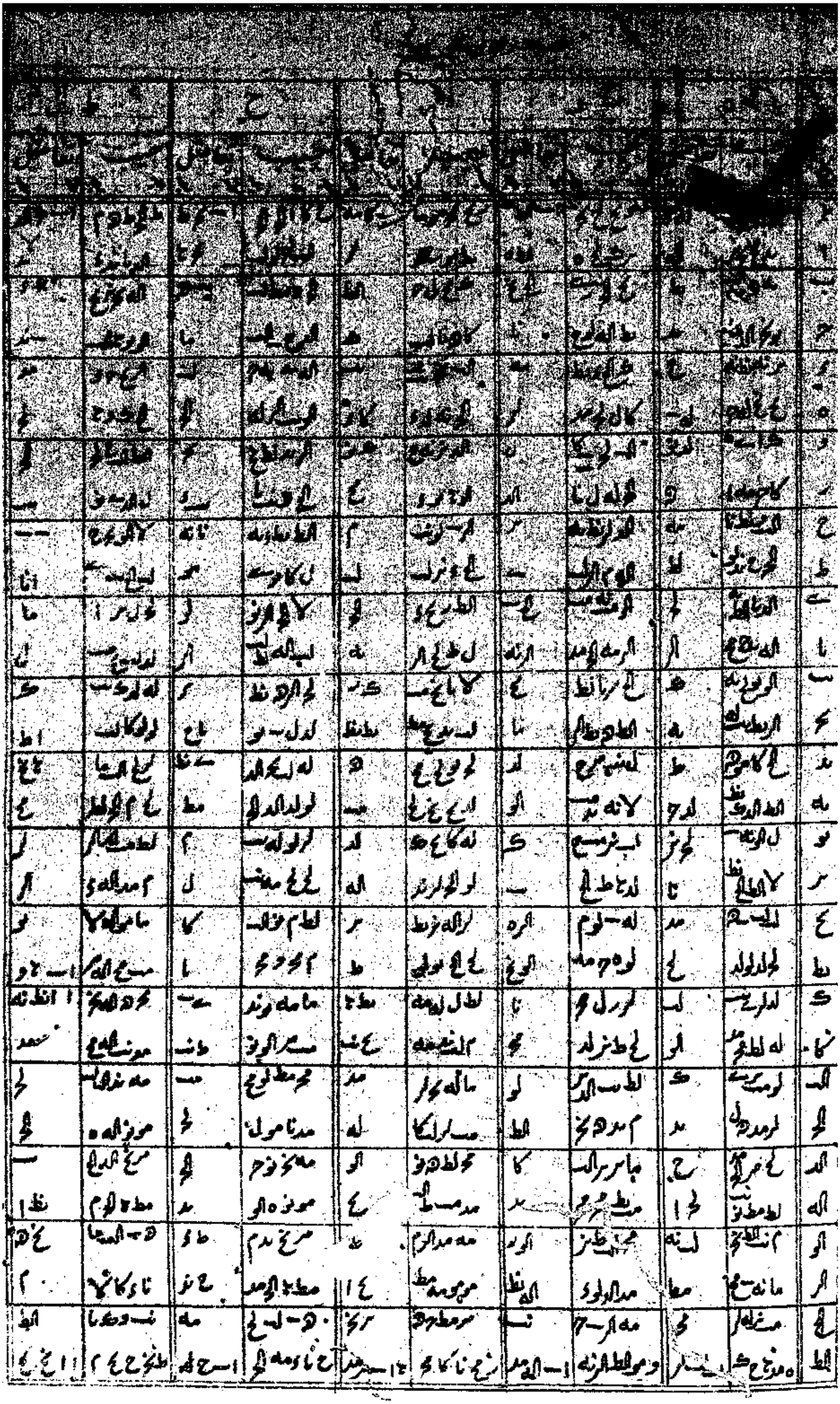
[illegible] جیوب بهمان اجزا مقدر میگردد و طریق برهان استخراج اوتار و
جیوب همان است که مقرر یافت لهذا هر کس از محاسبه زاویت و
درست مقادیر اوتار و جیوب را بالفعل برآرد همان مقدار
بر می آید که متقدمان استخراج کرده اند پس ازین
دو متاخرین از استخراج جیوب بلکه از
استخراج اظلال هم مستغنی اند و نقلاً
بعد نقل در مولفات خود می آرند
و درین جامع جدول جیب
بامتحان تفاضل تصحیح رقم
رقم نموده نوشته
میشود

ط

ل







بقية جدول الجيب

بقیہ جدول الجیب

تتمة جدول الجيب

بقیہ جدول الجیب

بقیہ جدول الجیب

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	جیب	تفاضل	جیب	تفاضل	جیب	تفاضل	جیب	تفاضل	جیب	تفاضل
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لب	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
لج	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
لد	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
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مج	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
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مط	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
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بقية جدول الجيب

بقية جدول الجيب

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	جيب	تفاضل	جيب	تفاضل	جيب	تفاضل	جيب	تفاضل	جيب	تفاضل	جيب	تفاضل
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لب	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
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لد	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
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لح	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
لط	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
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ما	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
مب	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
مج	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
مد	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
مه	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
مو	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
مز	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
مح	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
مط	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
ن	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
نا	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
نب	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
نج	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
نه	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
نو	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
نز	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
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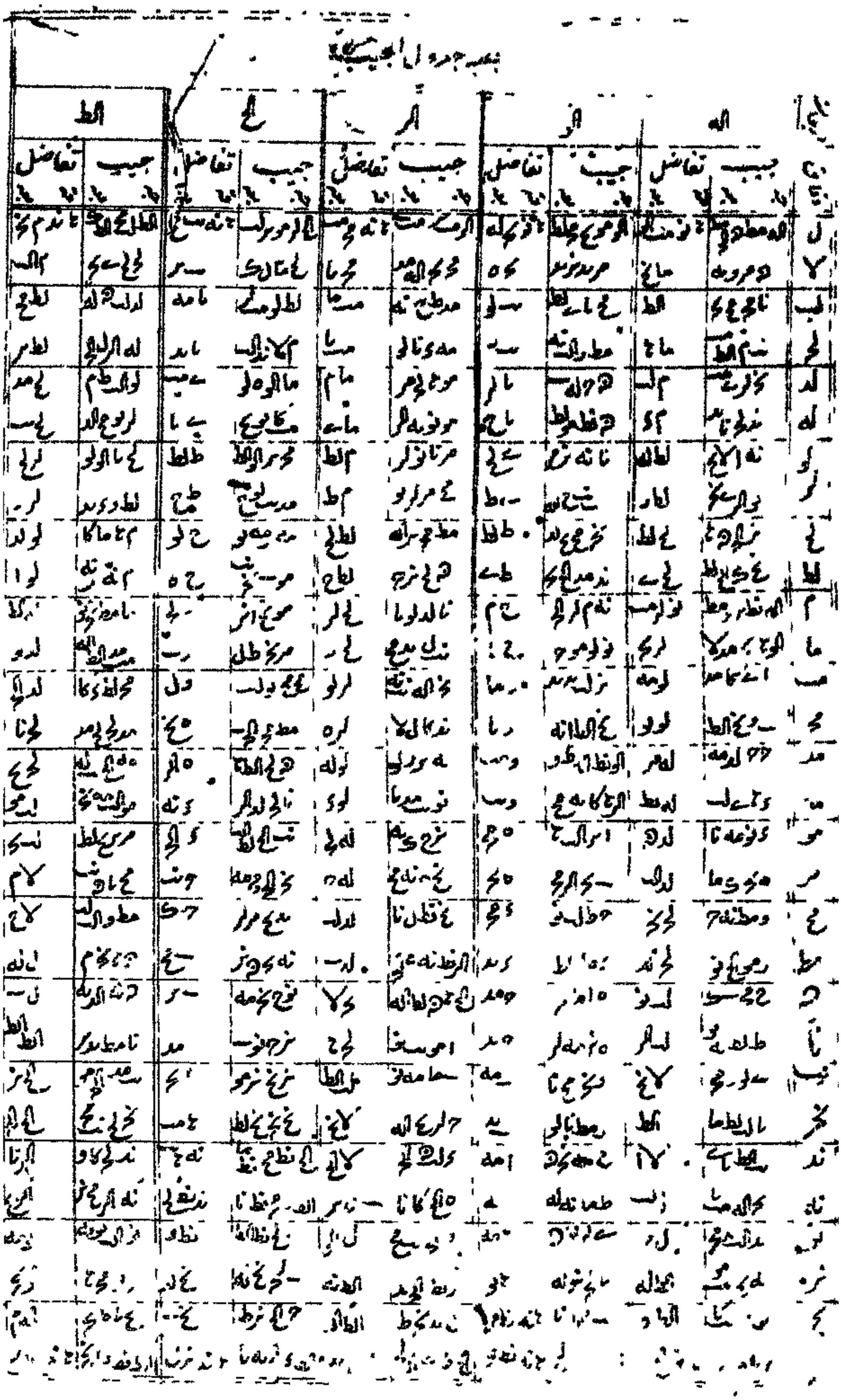
جداول الجيب



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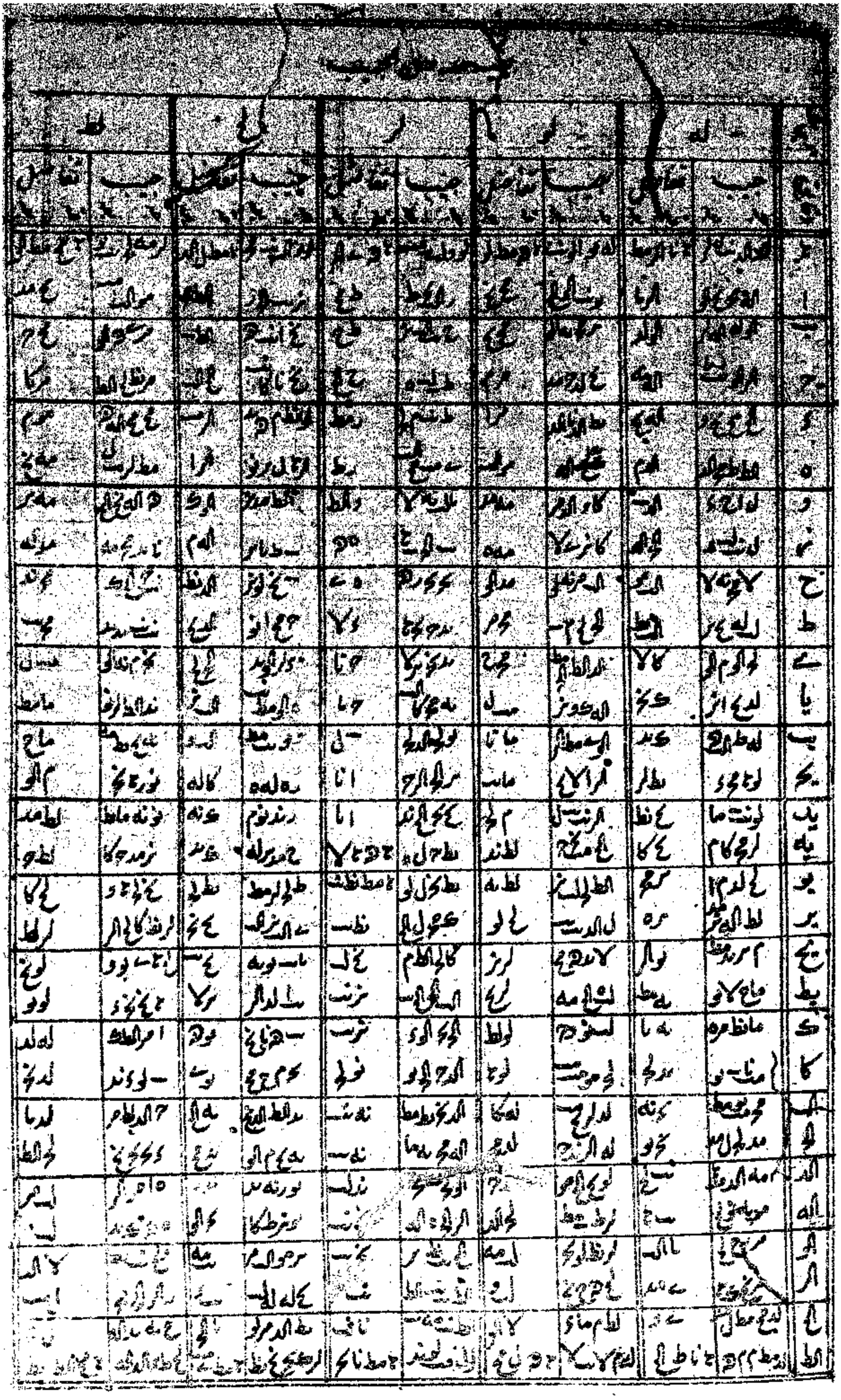
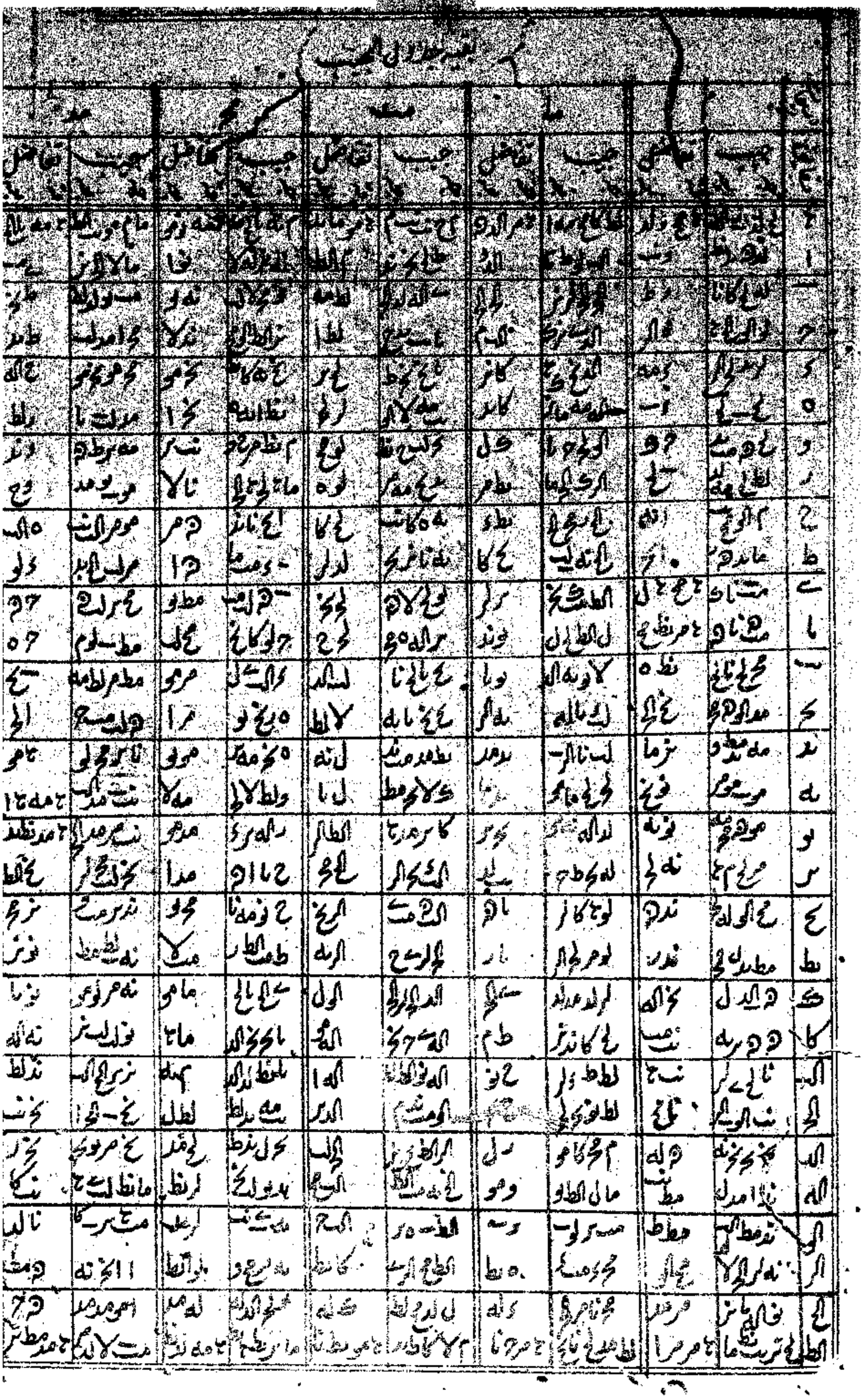


تتمة جدول الجيب



بقیہ جدول الجیب

| | ا | | ب | | ج | | د | | ه | | و | | ز | | ح | | ط | | ی | | یا | | یب | | یج | | ید | | یه | | یو | | یز | | یح | | یط | | ک | | کا | | کب | | کج | | کد | | که | | کو | | کز | | کح | | کط | | ل | | لا | | لب | | لج | | لد | | له | | لو | | لز | | لح | | لط | | م | | ما | | مب | | مج | | مد | | مه | | مو | | مز | | مح | | مط | | ن | | نا | | نب | | نج | | ند | | نه | | نو | | نز | | نح | | نط | | س | | سا | | سب | | سج | | سد | | سه | | سو | | سز | | سح | | سط | | ع | | عا | | عب | | عج | | عد | | عه | | عو | | عز | | عح | | عط | | ف | | فا | | فب | | فج | | فد | | فه | | فو | | فز | | فح | | فط | | ص | | صا | | صب | | صج | | صد | | صه | | صو | | صز | | صح | | صط | | ق | | قا | | قب | | قج | | قد | | قه | | قو | | قز | | قح | | قط | | ر | | را | | رب | | رج | | رد | | ره | | رو | | رز | | رح | | رط | | ش | | شا | | شب | | شج | | شد | | شه | | شو | | شز | | شح | | شط | | ت | | تا | | تب | | تج | | تد | | ته | | تو | | تز | | تح | | تط | | ث | | ثا | | ثب | | ثج | | ثد | | ثه | | ثو | | ثز | | ثح | | ثط | | خ | | خا | | خب | | خج | | خد | | خه | | خو | | خز | | خح | | خط | | ذ | | ذا | | ذب | | ذج | | ذد | | ذه | | ذو | | ذز | | ذح | | ذط | | ض | | ضا | | ضب | | ضج | | ضد | | ضه | | ضو | | ضز | | ضح | | ضط | | ظ | | ظا | | ظب | | ظج | | ظد | | ظه | | ظو | | ظز | | ظح | | ظط | | غ | | غا | | غب | | غج | | غد | | غه | | غو | | غز | | غح | | غط | | ف | | فا | | فب | | فج | | فد | | فه | | فو | | فز | | فح | | فط | | ق | | قا | | قب | | قج | | قد | | قه | | قو | | قز | | قح | | قط | | ک | | کا | | کب | | کج | | کد | | که | | کو | | کز | | کح | | کط | | گ | | گا | | گب | | گج | | گد | | گه | | گو | | گز | | گح | | گط | | ل | | لا | | لب | | لج | | لد | | له | | لو | | لز | | لح | | لط | | م | | ما | | مب | | مج | | مد | | مه | | مو | | مز | | مح | | مط | | ن | | نا | | نب | | نج | | ند | | نه | | نو | | نز | | نح | | نط | | و | | وا | | وب | | وج | | ود | | وه | | وو | | وز | | وح | | وط | | ه | | ها | | هب | | هج | | هد | | هه | | هو | | هز | | هح | | هط | | ی | | یا | | یب | | یج | | ید | | یه | | یو | | یز | | یح | | ی

الباب جدول الجيب

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بقیه جدول الجیب

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