

2023 Calculation Exam
Section 1 – Total 30 Marks

Calculate the House cusps to within **a degree** for the following two sets of data:

Q1

10 marks

(a)11 November 1957	11.00am
Sydney	33S52 151E13
Standard Time Zone	-10 hours East of Greenwich
Daylight Savings	no

ST from hand calculation = 02 24 31 [using Northern Tables]

Closest sidereal time to look up in Table of Houses is therefore

•02h 24m 00s for Northern Tables [latitude: 34S]

Local Sidereal Time from Solar Fire = 14 24 30 and the closest sidereal time using Southern Tables is 14 hours, 24 minutes

House Cusps

[hand calculated but not interpolated]

MC = 8 Scorpio 23
11th = 12 Sagittarius 49
12th = 15 Capricorn 31
ASC = 14 Aquarius 57
2nd = 8 Pisces 12
3rd = 5 Aries 57

Solar Fire House Cusps

MC = 8 Scorpio 30
11th = 12 Sagittarius 54
12th = 15 Capricorn 34
ASC = 15 Aquarius 00
2nd = 8 Pisces 18
3rd = 6 Aries 05

House Cusps interpolated

MC = 8 Scorpio 42
11th = 13 Sagittarius 06
12th = 15 Capricorn 47
ASC = 15 Aquarius 05
2nd = 8 Pisces 29
3rd = 6 Aries 15

Q1

10 marks

(a)
(b) 15 August 1950 11.50am
London, UK 51N30 000W10
Standard Time Zone GMT/UT
Daylight Savings yes – 1 hour

ST from hand calculation = 08 22 27 [using Northern Tables]

Local Sidereal Time from Solar Fire is 8 22 26

Closest sidereal time to look up in Table of Houses is therefore

•08h 24m 00s for Northern Tables [latitude: 51N]

Sidereal time using Southern Tables is 20 22 26 and the closest time to look up in Southern Tables is therefore 20 hours 24 minutes

House Cusps

Solar Fire House Cusps

[hand calculated but not interpolated]

MC = 3 Leo 41
11th = 7 Virgo 55
12th = 4 Libra 49
ASC = 25 Libra 29
2nd = 22 Scorpio 18
3rd = 25 Sagittarius 38

MC = 3 Leo 18
11th = 7 Virgo 37
12th = 4 Libra 29
ASC = 25 Libra 02
2nd = 21 Scorpio 44
3rd = 25 Sagittarius 05

House cusps interpolated

MC = 3 Leo 38
11th = 8 Virgo 00
12th = 4 Libra 44
ASC = 25 Libra 07
2nd = 21 Scorpio 45
3rd = 25 Sagittarius 11

Q2

10 marks

Calculate the longitudinal positions of the following planets to within **30 minutes** of zodiacal longitude. All data below is in GMT.

1: Sun 22 July 2013 3.24pm

Hand Calculation = 29 Cancer 58m 41s

Solar Fire = 29 Cancer 58m

0 Leo 16 10

2: Moon 15 November 1977 10.46am

Hand Calculation = 20 Capricorn 50m 21s

Solar Fire = 20 Capricorn 51m

3: Mercury 21 February 1967 3.20am

Hand Calculation = 18 Pisces 26m 22s

Solar Fire = 18 Pisces 27m

4: Venus 24 August 1957 5.00am

Hand Calculation = 05 Libra 00m 00s

Solar Fire = 05 Libra 00m

5: Mars 14 April 1967 4.45pm

Hand Calculation = 25 Libra 05m 57s Retrograde

Solar Fire = 25 Libra 06m Retrograde

END OF SECTION 1

Section 2 – Total 20 Marks

Use the chart provided to answer all the questions in Section 2

Q1 10.5 marks

Using the aspect grid supplied, find only the following aspects using the stated maximum orbs.

Include only the ten main planets, plus Chiron and the North Node.

[note: ASC, MC and South Node are not required]

No working out sheet required.

Conjunction ... 8-degree orb

Square 8-degree orb

Trine 8-degree orb

Opposition 8-degree orb

Sextile 6-degree orb

Quincunx 5-degree orb

21 aspects – half a mark each

Q2

1 mark

Using only the **planets and the above orbs**, name one aspect pattern and list the planets that form this pattern. *No working out sheet required.*

T-Square: Mars, Pluto, Moon

Easy Oppositions: Mars, Pluto, Neptune or Mars, Pluto, Sun

Sun, Neptune, Mars or Sun, Neptune, Pluto

Mystic Rectangle: Mars, Pluto, Sun, Neptune

Q3

2 marks

Calculate the Vertex to within one degree.

Birth latitude: 51°N58'

Northern Latitude: IC 26° Capricorn 26'

Colatitude 90°00' minus Birth Latitude 52° (rounded) = 38

Table: 26° Cap 00' = 13° Taurus 15' Vertex

or Table: 26° Cap 57' = 14° Taurus 36' Vertex

Solar Fire = 13° Taurus 54' Vertex

Q4

2 marks

What is the Lunation Phase for this chart?

Moon

5° Capricorn 27'

275° 27'

minus Sun

5° Gemini 43'

65° 43' = 209°44' = Full Moon

Solar Fire = 209° 43' Full Moon

Q5

0.5 mark

Which planet disposes Venus?

No working out sheet required.

The Moon disposes Venus

Q6

1 mark

Name one planet in detriment, and the sign it is in.

No working out sheet required.

Moon in Capricorn or Saturn in Cancer

Q7

1 mark

The Sun aspects Neptune: state the orb and type [applying or separating]

No working out sheet required.

Orb: 4°49' Applying

Q8

2 marks

Using the Diurnal Formula, calculate the Part of Fortune to the nearest degree.

ASC + Moon – Sun

19° Libra 55' + 5° Capricorn 27' - 5° Gemini 43'

199° 55' + 275° 27' [475°22'] - 65° 43' Result = 409° 39'

409° 39' - 360°00' = 49°39' = 19° Taurus 39'

Solar Fire = 19° Taurus 38' 55"

END OF SECTION 2

SECTION 3

- Q** Calculate a [12] monthly Secondary Progressed Moon table for Melissa for 6
1 2023, starting from January to the nearest 30 minutes of arc. marks

Midnight ACD = 27 February

Calculate Ephemeris Date (ED)

Year of Table required	2023
Subtract Year of birth	- 1979
Result =	44
GMT DOB = Day 275 + 44 = Day 319	15 November 1979

ED = 15 November 1979 = ACD 27 February 2023

	Ephemeris Date	Moon
Moon Day Before ED	14 Nov 1979	16 Virgo 02
Moon Position ED	15 Nov 1979	27 Virgo 53
Moon One Day after ED	16 Nov 1979	9 Libra 51

Movement B4 27/2/23 ACD	Ephemeris Date	Moon
Moon Position ED less	15 Nov 1979	27 Virgo 53
Moon Day Before ED	14 Nov 1979	16 Virgo 02
	Moon's Yearly Motion	= 11 deg 51
Divide by 12	Moon's Monthly Motion	= 0 deg 59'

Movement AFTER 27/2/23 ACD	Ephemeris Date	Moon
Moon Position after ED less	16 Nov 1979	9 Libra 51
Moon position ED	15 Nov 1979	-27 Virgo 53
	Moon's Yearly Motion	11°58

Divide by 12	Moon's Monthly Motion	= 1 deg 0'
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Year	Month	Progressed Hand calculation	Solar Fire
2023	January	26 Virgo 53 10	26 Virgo 50 10
ACD 27	February	27 Virgo 52 49	27 Virgo 51
	March	28 Virgo 52 28	28 Virgo 45
	April	29 Virgo 52 07	29 Virgo 46
	May	00 Libra 51 46	00 Libra 45
	June	01 Libra 51 25	01 Libra 46
	July	02 Libra 51 04	02 Libra 45
	August	03 Libra 50 43	03 Libra 45
	September	04 Libra 50 22	04 Libra 46
	October	05 Libra 50 01	05 Libra 46
	November	06 Libra 49 50	06 Libra 47
	December	07 Libra 49 19	07 Libra 46

END OF SECTION 3

Q1 Calculate a [12] monthly Secondary Progressed Moon table for Melissa for 2023, starting from January to the nearest 30 minutes of arc. 6 marks

Midnight ACD = 27 February

Calculate Ephemeris Date (ED)

Year of Table required	2023
Subtract Year of birth	- 1979
Result =	44
GMT DOB = Day 275 + 44 = Day 319	15 November 1979

ED = 15 November 1979 = ACD 27 February 2023

	Ephemeris Date	Mo
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Moon Day Before ED	14 Nov 1979	16 Vir
Moon Position ED	15 Nov 1979	27 Vir
Moon One Day after ED	16 Nov 1979	9 Lib

Movement B4 27/2/23 ACD	Ephemeris Date	Mo
Moon Position ED less	17 Nov 1979	27 \
Moon Day Before ED	16 Nov 1979	16 \
	Moon's Yearly Motion	= 11
Divide by 12	Moon's Monthly Motion	= 0

Movement AFTER 27/2/23 ACD	Ephemeris Date	Mo
Moon Position after ED less	18 Nov 1979	9 Lib
Moon position ED	17 Nov 1979	-27 \
	Moon's Yearly Motion	
Divide by 12	Moon's Monthly Motion	= 1

Year	Month	Progressed Hand calculation	Solar Fire
2023	January	26 Virgo 53 10	26 Virgo 50
ACD 27	February	27 Virgo 52 49	27 Virgo 51
	March	28 Virgo 52 28	28 Virgo 45
	April	29 Virgo 52 07	29 Virgo 46
	May	00 Libra 51 46	00 Libra 45
	June	01 Libra 51 25	01 Libra 46

	July	02 Libra 51 04	02 Libra 45
	August	03 Libra 50 43	03 Libra 45
	September	04 Libra 50 22	04 Libra 46
	October	05 Libra 50 01	05 Libra 46
	November	06 Libra 49 50	06 Libra 47
	December	07 Libra 49 19	07 Libra 46

- Q2** How old will Melissa be when she experiences her 2nd Secondary Progressed New Moon? What degree and sign is it in? 2 marks
29 November 2027, 48 yo, 26 Scorpio 48
Count 48 down from GMT DOB 2/10/79 Sun conj Moon 26 Scorpio
- Q3** At what age did Melissa's Progressed Sun conjunct her natal Mercury? 3 marks
22 February 1994, 14 yo, 23 Libra 00
Count 14 from GMT DOB 2/10/79 to Sun reaches 23 Libra 00
- Q4** How old was Melissa when her Solar Arc Saturn was conjunct her Natal Venus? 3 marks
Saturn = 19Virgo59 (169°59)
Venus = 19Libra01 (199°01)
Diff = 29°02
Sun = 08Libra47 (188°47) + SA Diff 29°02 = 217°49 = 7
Scorpio 49 = 31/10/79

9 January 2009, 29 yo, 19 Libra 01
- Q5** During 2023 transiting Saturn will oppose Melissa's natal Jupiter. List the exact GMT dates. *No working out sheet required.* 3 marks
12 March, 24 October, 14 November 2023
- Q6** Using a one-degree orb, both separating and applying, list the [GMT] periods in 2023/24 when Jupiter trines Melissa's natal north node. 3 marks
No working out sheet required.
19 June – 30 June 2023, 12 - 30 November 2023, 31 January – 16 February 2024

- Q7** List the exact [GMT] date when Melissa will experience the first hit of her next Saturn return. *No working out sheet required.* 1 mark
15 September 2038 (also accept 14 September)
- Q8** List the exact [GMT] dates and zodiacal degrees of all Solar and Lunar Eclipses for 2023. *No working out sheet required.* 2 marks
Lunar eclipses: 5 May 14 Scorpio 58, 28 Oct 5 Taurus 09
Solar eclipses: 20 April 29 Aries 50, 14 Oct 21 Libra 08
- Q9** What are the exact [GMT] periods when Mercury is retrograde during 2023? *No working out sheet required.* 2 marks
29 December 2022 to 18 Jan 2023, 21 April to 15 May, 23 August to 15 September, 13 December to 2 January 2024
- Q10** Calculate the GMT Adjusted Calculation Date for the following birth data: 5 marks
 16 December, 1967, 4:55pm, Warrnambool, Victoria (AEST – 10:00)

ACD: 16 December 1967 04.54 pm, Warrnambool, VIC AEST -10 hours 38S23 142E29

Step 1: Zone difference)	Find GMT of birth (subtract or add Standard Time
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04 55 pm
 = 16 55 hrs
 - 10 00
(GMT) 06 55 hrs = **16 Dec = 6 55 am**

Step 2:	Subtract GMT from 24.00 hours.
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-06 55 hrs

= 17 05

Step 3: **Add** this answer to Midnight SIDEREAL TIME in Ephemeris for GMT date of birth:

17 05
05 35 48 Sid Time on 16 Dec 1967

22 40 48

Step 4: If this answer is greater than 24 hours - subtract 24 from answer.

22 40 48

24 00 00

Step 5: **Find this time listed in Ephemeris** as a SIDEREAL TIME - and check the **date of this Sid. Time = ACD (search backwards in Ephemeris!)**

Look back in Ephemeris for nearest Sid Time close to **22 40 48**

Midnight: **31 August 1967** (Sid Time = 11 43 57)

Solarfire = Midnight: 31 August 1968 | Noon: 2 March 1968

SECTION 4

Q1

If a person were born at sunrise the Sun would be in house?

a. 1/12

1
mark

- b. 5/6.
- c. 7/8
- d. 10/11

Q2 If Mercury trines the North Node, then it is what aspect to the South Node? 1 mark

- a. Quincunx/inconjunct.
- b. Square
- c. Trine
- d. **Sextile**

Q3 Which two planets are in Mutual Reception? 1 mark

- a. Venus in Aries, Mars in Aries
- b. Jupiter in Cancer, Moon in Taurus
- c. **Sun in Capricorn, Saturn in Leo**
- d. Mercury in Gemini, Mars in Aries

Q4 Which of the following is not a 12th harmonic aspect? 1 mark

- a. Conjunction.
- b. Sextile.
- c. Square.
- d. **Semi square.**

Q5 Mercury takes how many days to complete one orbit of the Sun? 1 mark

- a. **88.**
- b. 168.
- c. 23.5
- d. 365

Q6 The Synodic cycle of Neptune and Uranus is?

- a. 238 yrs
 - b. 127 yrs
 - c. 171 yrs
 - d. 320 yrs
- 1 mark

- Q7 Diurnal motion refers to?
- a. The Moon's movement in 24 hours
 - b. Precession of the Equinoxes
 - c. The Earth's daily rotation
 - d. The Earth's Tilt.
- 1 mark

- Q8 A Sidereal Cycle of the Moon takes approximately?
- a. 30 days.
 - b. 27.3 days.
 - c. 29.5 days
 - d. 24 hours
- 1 mark

- Q9 Using derived houses, which house describes your son in law's car?
- a. 1st
 - b. 11th
 - c. 7th
 - d. 3rd
- 1 mark

- Q10 The planet Pluto is identified with which Greek God?
- a. Prometheus
 - b. Apollo
 - c. Zeus
 - d. Hades
- 1 mark

- Q11 Jupiter is in fall in?
- a. Cancer
 - b. Capricorn
 - c. Aries
- 1 mark

d. Gemini

Q12 The Prime Vertical is:

- a. North/South intersection of the ecliptic
 - b. East /West circle perpendicular to the Meridian
 - c. Intersection of the Ecliptic and Equator
 - d. Another name for Vertex.
- 1 mark

Q13 The direct midpoint of Saturn at 20 Leo and Mars at 10 Libra is?

- a. 15 Pisces
 - b. 20 Aquarius
 - c. 15 Virgo
 - d. 10 Cancer
- 1 mark

Q14 In Medical Astrology Jupiter is said to rule?

- a. Lungs
 - b. Liver
 - c. Kidneys
 - d. Skin
- 1 mark

Q15 What is the only planet named for a Greek God?

- a. Mercury
 - b. Uranus
 - c. Jupiter
 - d. Saturn
- 1 mark

Q16 Which of the following chart patterns is only possible with a stellium opposed by at least one other planet?

- a. Locomotive
 - b. Bowl
 - c. Bundle
- 1 mark

d. Bucket

Q17 The branch of Astrology associated with finding lost objects is? 1 mark

- a. Astro locality
- b. Electional
- c. Horary
- d. Cosmobiology

Q18 The planet Uranus was officially discovered?

- a. November 1780
- b. March 1781
- c. September 1782
- d. January 1788

1 mark

Q19 Jupiter takes approximately how many years from one conjunction of Pluto to the next?

- a. 13
- b. 10
- c. 6
- d. 20

1 mark

Q20 Triton is the largest moon of?

- a. Saturn
- b. Jupiter
- c. Neptune
- d. Uranus

1 mark

- Q21 A chart with 2 pairs of oppositions each forming a sextile and trine the other pair is what chart pattern? 1 mark
- a. **Mystic rectangle**
 - b. Thor's Hammer
 - c. Calypso
 - d. Kite
- Q22 Precession is caused by ? 1 mark
- a. The Sun moving toward the Galactic Centre
 - b. Vedic Astrology
 - c. **The Earth's tilt**
 - d. Gravitational pull of the Moon
- Q23 The Sun and Venus repeat the same aspect as in the natal chart every how many Solar returns? 1 mark
- a. 6 yrs
 - b. 23 yrs
 - c. **8 yrs**
 - d. 10 yrs
- Q24 Which of the following pairs of planets are contra parallel to each other? 1 mark
- a. Jupiter 10 S 15, Venus 20 N 15
 - b. Sun 13 N 25, Mercury 13 N 05
 - c. **Uranus 18 S 15, Moon 18 N 23**
 - d. Saturn 22 N 11, Sun 11 N 22

END OF SECTION 4

