

CALCULATION EXAM 2019

SECTION 1 - Total 30 marks

Q1

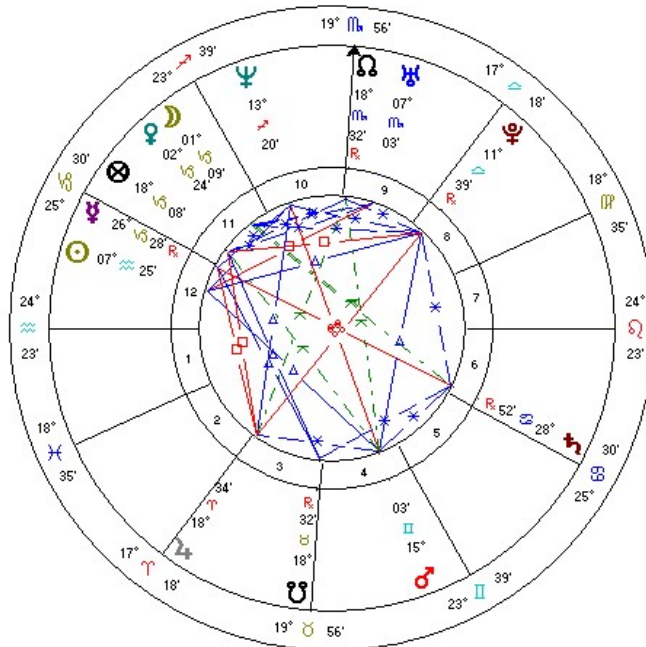
Calculate the House cusps to within a degree for the following two sets of data:

- | | | |
|-----|--|---|
| (a) | 28 January 1976
Cape Town, South Africa
Standard Time Zone
Daylight Savings | 7.30 am
33 S 55 18 E 22
- 2 hours east of Greenwich
NO |
|-----|--|---|

LST Local Sidereal Time : 3 hours 9 minutes 58 seconds (hand calculation)
Hand Calculation House Cusps Solar Fire Computer

- | | |
|---|--|
| MC = 19 Scorpio 57
11 th = 23 Sagittarius 41
12 th = 25 Capricorn 33
1 st = 24 Aquarius 26
2 nd = 18 Pisces 37
3 rd = 17 Aries 19 | 19 Scorpio 56
23 Sagittarius 39
25 Capricorn 30
24 Aquarius 23
18 Pisces 35
17 Aries 18 |
|---|--|

Calc S1Q1(a)
Natal Chart
 28 Jan 1976, Wed
 7:30 am EET -2:00
 Cape Town, South Africa
 33°S55' 018°E22'
 Geocentric
 Tropical
 Placidus
 True Node



(b)	5 June 2012	2.25 pm
	Vienna, Austria	48 N 13 16 E 20
	Standard Time Zone	- 1 hour east of Greenwich
	Daylight Savings	Yes – 1 hour

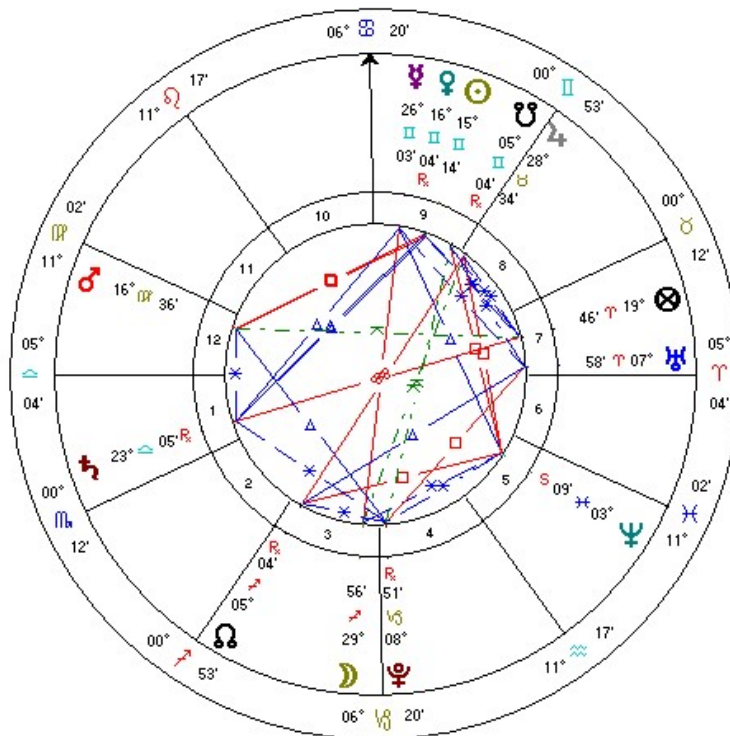
LST Local Sidereal Time: 6 hours 27 minutes 40 seconds (hand calculation)

Hand Calculation House Cusps Solar Fire Computer

MC = 6 Cancer 20	6 Cancer 20
11 th = 11 Leo 15	11 Leo 17
12 th = 11 Virgo 01	11 Virgo 02
1 st = 5 Libra 5	5 Libra 4
2 nd = 0 Scorpio 16	0 Scorpio 12
3 rd = 0 Sagittarius 57	0 Sagittarius 53

Calc S1Q1(b)
Natal Chart
 5 Jun 2012, Tue
 2:25 pm, CEDT -2:00
 Vienna, Austria
 48°N 13° 016"E 20"
Geocentric
Tropical
Placidus
True Node

10 marks



Q2

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

1. Sun: 9 June 1964 3.20 pm

Hand Calculation = 18 Gemini 47

Solar Fire = 18 Gemini 47

2. Moon 30 October 1988 7.25 am

Hand Calculation = 12 Cancer 57

Solar Fire = 12 Cancer 57

3. Mercury: 28 January 1976 5.30 am

Hand Calculation = 26 Capricorn 29 Retrograde

Solar Fire = 26 Capricorn 28 Retrograde

4. Venus: 30 June 2009 10.27 pm

Hand Calculation = 25 Taurus 13

Solar Fire = 25 Taurus 13 0

5. Mars: 1 October 1959 7.00 pm

Hand Calculation = 16 Libra 53

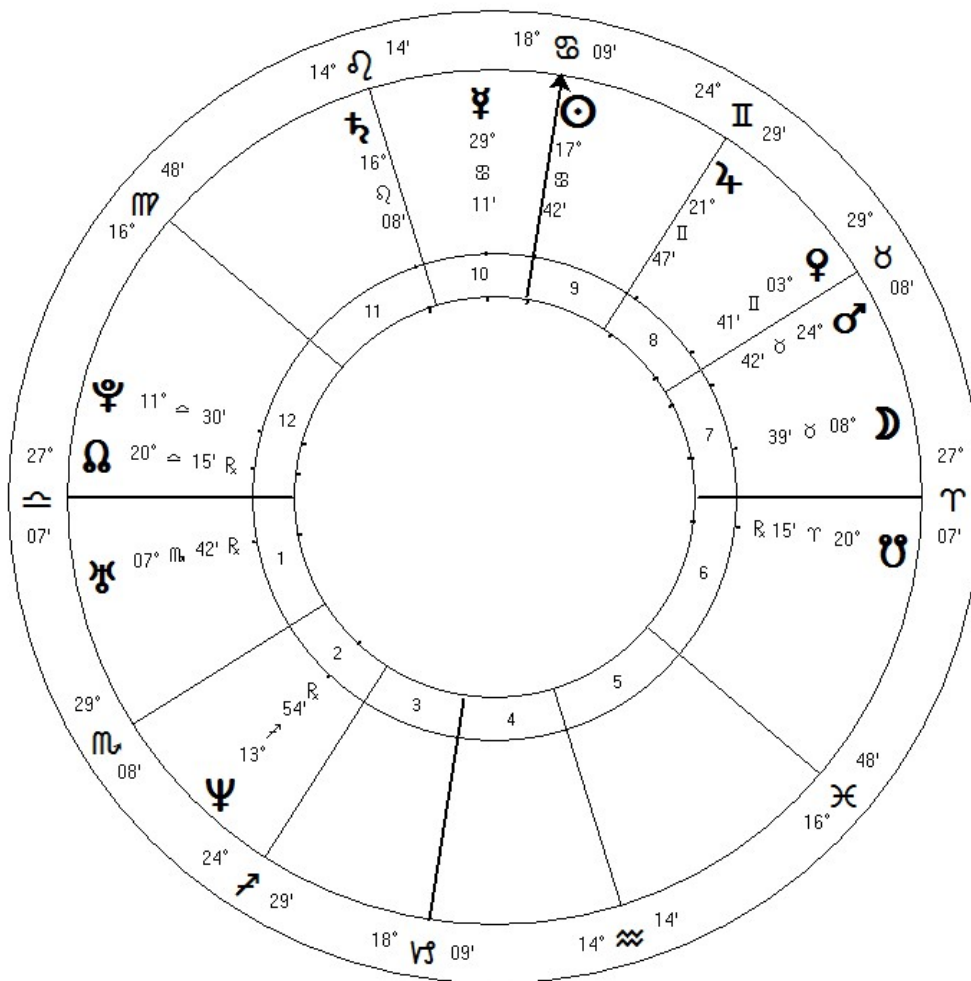
Solar Fire = 16 Libra 53

10 marks

END OF SECTION 1

SECTION 2 - Total 20 Marks

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



SECTION 2 – Total 20 Marks

1211 Using the aspect grid supplied find only the following aspects using the stated maximum orbs. Include the planets **plus** the Nodes [Note: Do not include Node opposite Node].

Conjunction..... 8 degree orb.

Square 8 degree orb.

Opposition..... 8 degree orb.

10 marks

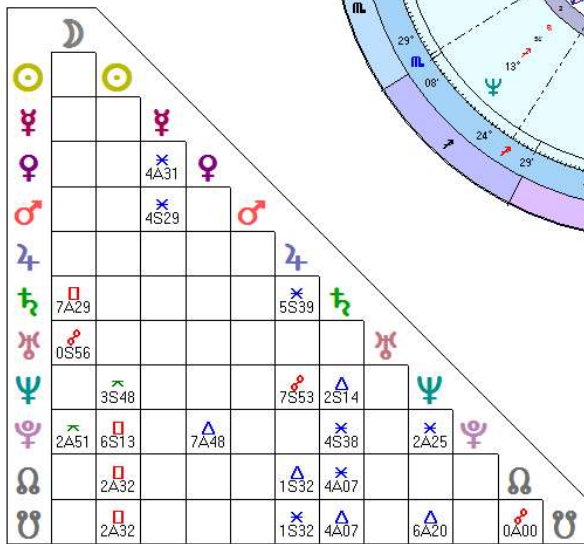
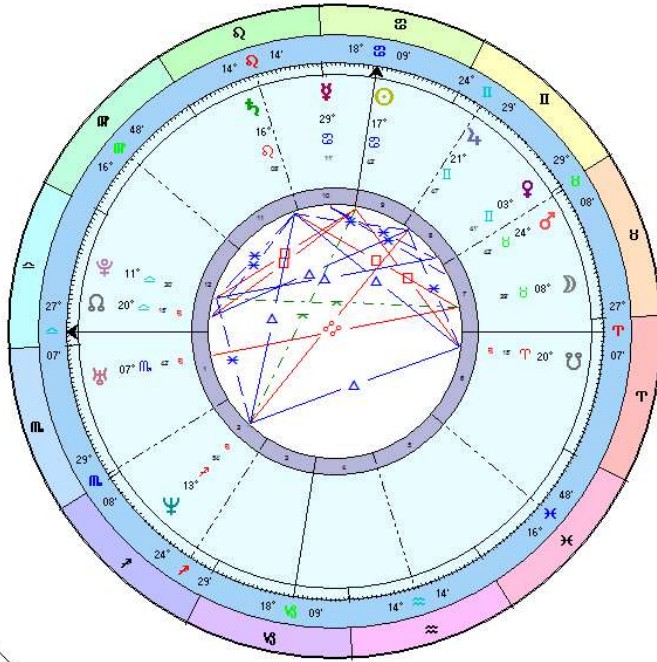
Trine 8 degree orb.

Sextile 6 degree orb.

Quincunx 4 degree orb.

20 aspects = half a mark each

Shapelle Corby
Female Chart
 10 Jul 1977, Sun
 11:55 am AEST -10:00
 Brisbane, AUSTR
 27°S28°153'E02
Geocentric
Tropical
Placidus
True Node



- Q2 Using the planets and nodes [and the above orbs], name one aspect pattern and list the planets that form this pattern. **Kite = ♃ ♄ ♀ ♃; Grand trine = ♃ ♀ ♃; T-Sq ☉ 22♁♁** 2 marks
- Q3 What is the Lunation Phase for this chart? **Third quarter (290°56 - Solarfire)** 1 mark
Sun – 17♁42 (107°42); Moon – 8♃39 (38°39) = 399 – 108 = 291
- Q4 What is the short arc midpoint of Jupiter and Neptune? 2 marks
♃21♁47 (81°47); ♃13♃54 (253°54) = 335°41/2 = 167°51 = 17♁♁51
- Q5 Which planet disposites Venus? **Mercury** 1 mark

Q6 List one planet in its exaltation. Moon 1 mark

Q7 Which planet is closest to an angle Sun 1 mark

Using the diurnal formula, calculate the Part of Fortune to nearest degree

Q8 Formula: $ASC + Moon - Sun$ 2 marks

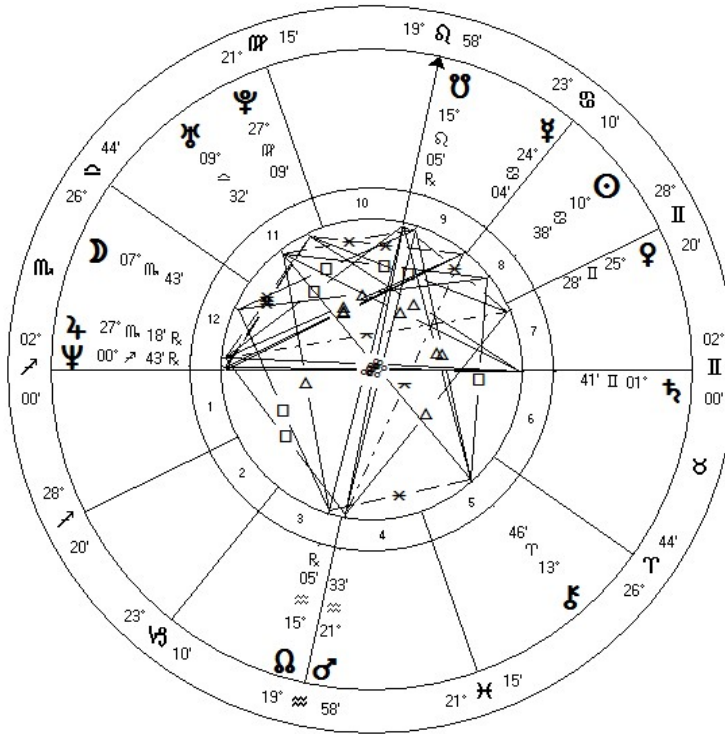
Convert to celestial longitude

$$Asc\ 27^{\circ}06\ (207^{\circ}06) + Moon\ 8^{\circ}39\ (38^{\circ}39) - Sun\ 17^{\circ}42\ (107^{\circ}42) = 245^{\circ}45 - 107^{\circ}42 = 138^{\circ}03 = 18^{\circ}03$$

END OF SECTION 2

SECTION 3 – TOTAL 30 MARKS

Julie
Natal Chart
 3 Jul 1971, Sat
 3:00 pm AEST -10:00
 Townsville, Australia
 19°S16' 146°E48'
Geocentric
Tropical
Flacius
True Node



	♄														
♁	♁ 2A56	♁													
♃			♃												
♂				♂											
♌			♌ 2S31	♌ 3S55	♌										
♍			♍ 3A14	♍ 1A50	♍ 5A45	♍									
♎						♎ 4S23	♎								
♏		♏ 1S06					♏ 7A51	♏							
♐			♐ 6A39			♐ 3S25	♐ 0S58		♐						
♑			♑ 3A05	♑ 1A41		♑ 0A09	♑ 4S32		♑ 3A34	♑					
♒			♒ 3A08							♒ 4A14				♒	
♓	♓ 7A23				♓ 6S28			♓ 5A33		♓ 1A19	♓				
♊	♊ 7A23				♊ 6S28			♊ 5A33		♊ 1A19	♊ 0S00	♊			
♋			♋ 7S56			♋ 4S42	♋ 0S19		♋ 1S17	♋ 4S51				♋	
♌				♌ 5A31	♌ 1A35	♌ 7A20					♌ 6S11	♌ 4S52	♌ 4S52		♌

All questions in this section relate to Julie's chart, except for Questions 8, 9 and 10.

All answers to be in GMT.

Working out sheets to be provided with the answers in this section unless specified otherwise

Julie's ACD: Midnight ephemeris: ACD = 18 April 1971

Noon ephemeris: ACD = 17 October 1970

Calculate a [12] monthly Secondary Progressed Moon table for Julie for 2019, starting from January 16 to the nearest 30 minutes of arc.

ACD = 18 April; Count 48 from GMT DOB = 20 Aug 1971 = 0HR 15 h 15 m 34 s 32 ms

Monthly Pr D movement = 15 h 15 m 34 s - 21 h 15 m 43 s = 6 $^{\circ}$ 09' /6 = 1 $^{\circ}$ 01'

2019 (SolarFire)

18 Jan = 12 h 12 m 31 s (12 h 12 m 28 s)

18 Feb = 13 h 13 m 32 s (13 h 13 m 31 s)

18 Mar = 14 h 14 m 33 s (14 h 14 m 27 s)

18 Apr = 15 h 15 m 34 s (15 h 15 m 30 s)

18 May = 16 h 16 m 35 s (16 h 16 m 31 s)

18 Jun = 17 h 17 m 36 s (17 h 17 m 34 s)

18 Jul = 18 h 18 m 37 s (18 h 18 m 34 s)

18 Aug = 19 h 19 m 38 s (19 h 19 m 37 s)

18 Sep = 20 h 20 m 39 s (20 h 20 m 39 s)

18 Oct = 21 h 21 m 40 s (21 h 21 m 39 s)

18 Nov = 22 h 22 m 41 s (22 h 22 m 42 s)

18 Dec = 23 h 23 m 42 s (23 h 23 m 42 s)

Q1

6 marks

Q2

Identify the age Julie has her 3rd Secondary Progressed Full Moon? What degree and sign is it in? 3 marks

63/64 years 11 h 57 m GMT DOB = 3 July 71 = 0 GMT 3rd Full Moon = 5 Sep 71 (11 h 57 m) = day

b4 in Australia = count 63

Q3 Identify the age Julie has her Progressed Venus conjunct her natal Midheaven? **44 years** 2 marks

MC = 19♋58'

GMT DOB = 3 July 71 = 0 16 Aug 1971 ♀ = 19♋15' = 44

17 Aug 1971 ♀ = 20♋29' = 45

How old was Julie when her Solar Arc Mercury was conjunct her Natal Pluto? **65 years**

Q4 4 marks

♃ = 24♌04' (114°04')

♅ = 27♏09' (177°09')

Diff = 63°05'

☉ = 10♌38' (100°38') + SA Diff 63°05' = 163°43' = 13♏43' (7 Sep 71 = 13♏43'45'') = 66 count
(occurs just before so 65 years)

Q5 During 2020 transiting Pluto will be opposite Julie's natal Mercury. List the exact GMT dates. *No working out sheet required.* **22 Feb, 2 Jul, 27/28 Dec** 1 ½ marks

Q6 Using a one degree orb, both separating and applying, list the GMT periods when Uranus opposes Julie's natal Moon. *No working out sheet required.* 2 marks

28 Apr 2020 – 3/4 Jun 2020

30/31 Oct 2020 – 26 Mar 2021

Q7

1 mark

List the exact GMT date when Julie will experience her next Mars return.

No working out sheet required. GMT 30 April 2020/AEST 1 May 2020

Q8 List the exact [GMT] dates and zodiacal degrees of all Solar and Lunar Eclipses for 2020.

No working out sheet required.

Solar Eclipses:

21 Jun - 00♋21

14 Dec - 23♏08

Lunar Eclipses:

10 Jan - 20♋00

05 Jun - 15♌34

05 Jul - 13♍38

30 Nov - 08♐38

3 marks

Q9

What are the exact [GMT] periods that Mercury retrogrades during 2019? *No working out sheet required. 5 – 27/28 March; 7 – 31 July; 31 Oct – 19/20 November*

1 ½
marks

Q10

Calculate the GMT Adjusted Calculation Date for the following birth data:

21 September 1957 12.07pm

Nambour, QLD, Australia

Standard Time Zone: -10 hours (no daylight savings time)

Adjusted Calculation Date = 19/20 August 1957 (Midnight ephemeris) (20th ST is 21 52 15) 6 marks

A. 1. Time of Birth (Local Time)

2. Convert to 24 hour clock (Universal time)

Daylight Savings - SUBTRACT 1 or 2 hours if needed (refer Atlas)

$$\begin{array}{r} \boxed{12.07} \text{ AM/PM} \\ \text{UT Time} = \underline{12.07} \\ - \underline{\hspace{2cm}} \text{ Daylight Savings} \\ = \underline{12.07} \end{array}$$

B. Convert Time of Birth to GMT Time (i.e. + time zone from Birth Time - M.B. add 24 hrs to Birth Time if it's too small to subtract time zone from - GMT is now the previous day)

$$\begin{array}{r} + \underline{24.00} \\ \underline{\hspace{2cm}} \\ + \text{⊙} \underline{10.00} \text{ Time Zone} \\ \text{GMT} = \underline{2.07} \end{array}$$

C. SUBTRACT GMT time from 24 hours

$$\begin{array}{r} \underline{24.00} \\ - \underline{2.07} \\ = \underline{21.53} \end{array}$$

D. Add Greenwich Birth Date SIDEREAL TIME (refer Ephemeris)
* if Birth Date's GMT is day before—use sidereal time for the day before DOB

$$\begin{array}{r} + \underline{23.58} \text{ GMT Sidereal Time} \\ = \underline{45.51} \\ - \underline{24.00} \end{array}$$

MINUS 24 hours if necessary (i.e. if over 24 hour clock)

$$\text{ACD Sidereal Time} = \underline{21.51}$$

E. Find the ACD Sidereal Time in the Ephemeris (N.B. go backwards from birthdate)

$$\text{ACD Date} = \underline{19^{\text{th}} \text{ August}}$$

SECTION 4 - TOTAL 20 MARKS

Answer 20 questions of a possible 25

Section 4 Answers

1. c
2. b
3. c
4. a
5. c
6. c
7. b
8. b
9. b
10. c
11. d
12. a
13. b
14. d
15. c
16. b
17. c
18. d
19. b
20. d
21. d
22. b
23. b
24. c
25. a

END OF EXAM