

CALCULATION EXAM 2020

SECTION 1 - Total 30 marks

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

Q1

- | | | |
|-----|--------------------|------------------------------|
| (a) | 19 March 1989 | 0:53 am |
| | Sydney, NSW | 33S52 151E13 |
| | Standard Time Zone | - 10 hours east of Greenwich |
| | Daylight Savings | yes – 1 hour |

LST from Solar Fire = 11 hours 42 minutes 16 seconds [using Southern Tables]
and adjusted for Northern Tables = 23 Hours 42 minutes 16 seconds

Closest sidereal time to look us in Table of Houses is therefore 11 hours 44 minutes / 23 hours 44 minutes [or 11 hours 40 / 23 hours 40 would still give correct answers - within a 1 degree orb]

Houses cusps [not interpolated]

Mc = 25 Virgo 38
11th = 0 Scorpio 49
12th = 8 Sagittarius 7
ASC = 11 Capricorn 35
2nd = 2 Aquarius 56
3rd = 26 Libra 40

LST Local Sidereal Time : 23 hours 43 minutes 18 seconds (hand calculation)

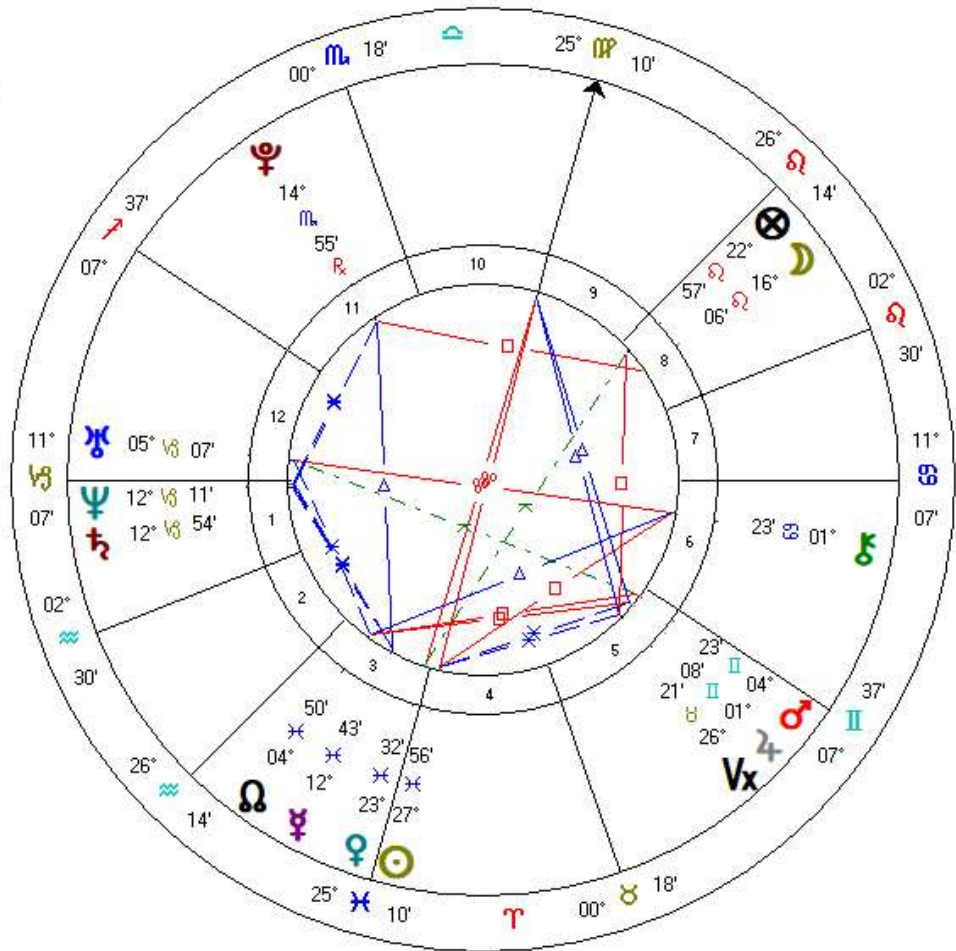
Hand Calculation House Cusps [interpolated] Solar Fire Computer

MC = 25 Virgo 10	25 Virgo 10
11 th = 0 Scorpio 20	0 Scorpio 18
12 th = 7 Sagittarius 41	7 Sagittarius 37
1 st = 11 Capricorn 13	11 Capricorn 07
2 nd = 2 Aquarius 34	2 Aquarius 30
3 rd = 26 Aquarius 16	26 Aquarius 14

Sect 1 Q1

Natal Chart

19 Mar 1989, Sun
0:53 am AEDT -11:00
Sydney, NSW
33°S52' 151°E13'
*Geocentric
Tropical
Placidus
True Node*



(b)	25 August 1970	12:10pm
	Rheinberg, Germany	51 N 33 6 E 35
	Standard Time Zone	- 1 hour east of Greenwich
	Daylight Savings	No

LST from Solar Fire is 9 hours 49 minutes 33 seconds [for Northern Tables and adjusted for Southern Tables is 21 hours 49 minutes 33 seconds

Closest sidereal time to look up in the Table of Houses would therefore be 9 hours 48 minutes for Northern Tables or 21 hours 48 minutes for Southern tables [but 9 hours 52minutes and 21hours 52 minutes would also give cusps within the one degree orb]

House Cusps [not interpolated]

MC = 24 Leo 42
11th = 27 Virgo 14
12th = 21 Libra 25
ASC = 9 Scorpio 44

10
marks

2nd = 8 Sagittarius 20

3rd = 14 Capricorn 59

LST Local Sidereal Time : 9 hours 49 minutes 40 seconds (hand calculation)[my hand calculation was 21 49 33, same as Solar Fire]

Hand Calculation House Cusps

Solar Fire Computer

MC = 25 Leo 08

11th = 27 Virgo 07

12th = 21 Libra 44

1st = 10 Scorpio 02

2nd = 8 Sagittarius 40

3rd = 15 Capricorn 34

25 Leo 06

27 Virgo 35

21 Libra 48

10 Scorpio 13

8 Sagittarius 56

15 Capricorn 33

Sect 1 Q1b

Natal Chart

25 Aug 1970, Tue

12:10 pm CET -1:00

Rheinberg, Germany

51°N33' 006°E35'

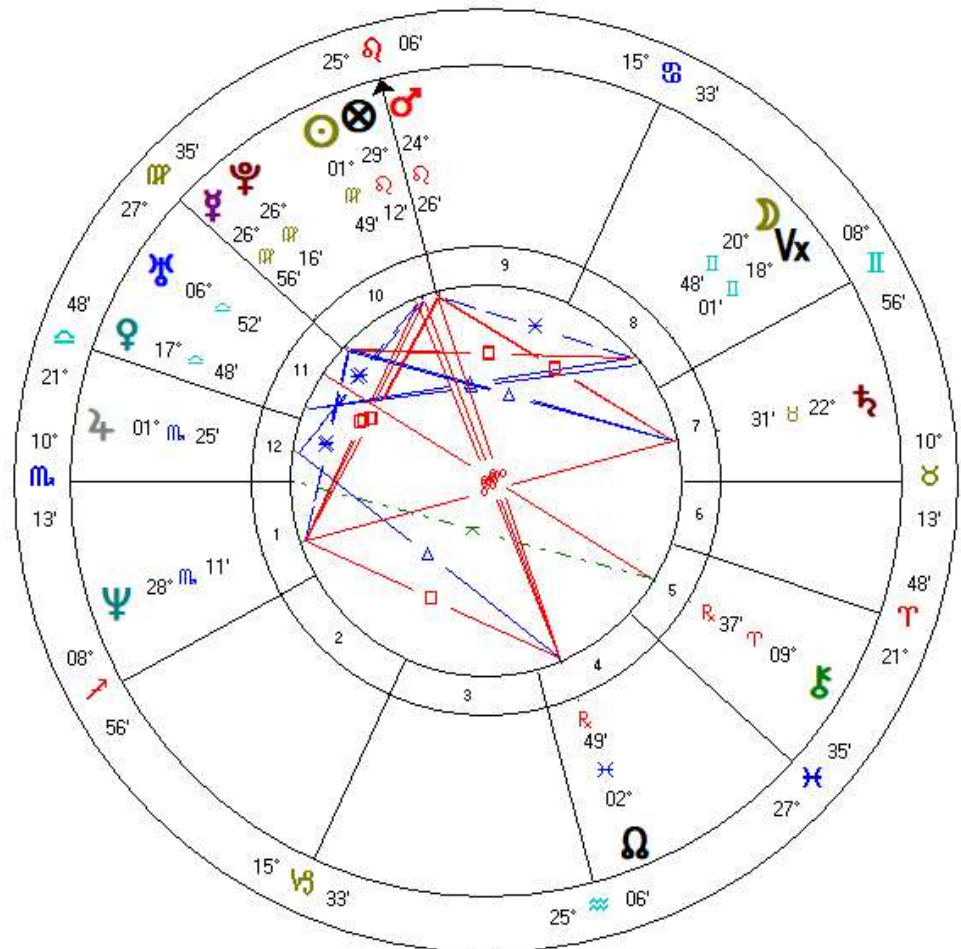
Geocentric

Tropical

Placidus

True Node

Rating: B



10
marks

Q2

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

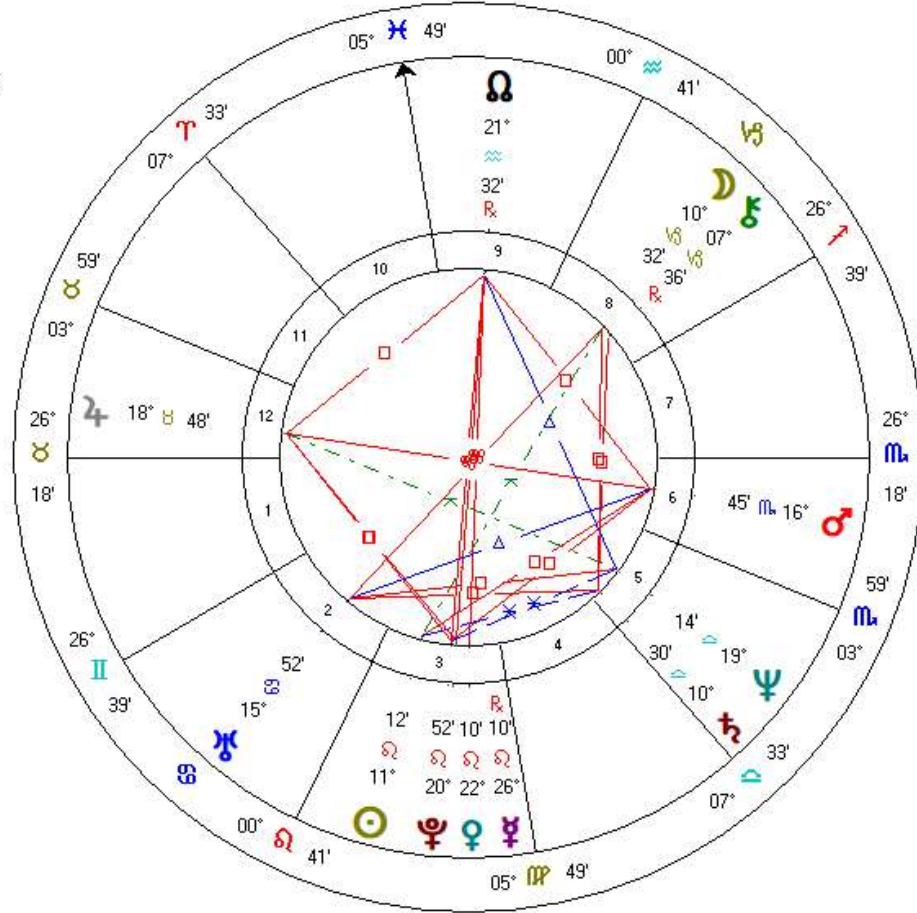
1. Sun: 26 October 1956 11:45am
 Hand Calculation = 3 Scorpio 02
 Solar Fire = 3 Scorpio 02
2. Moon 4 August 1954 9:00pm
 Hand Calculation = 21 Libra 02
 Solar Fire = 21 Libra 02
3. Mercury: 9 July 1987 1:20pm
 Hand Calculation = 8 Cancer45 retrograde
 Solar Fire = 8 Cancer 44 Retrograde
4. Venus: 28 February 1958 2:21am
 Hand Calculation = 2 Aquarius 30
 Solar Fire = 2 Aquarius 29
5. Mars: 27 August 1984 10:15 am
 Hand Calculation = 5 Sagittarius 17
 Solar Fire = 5 Sagittarius 17

END OF SECTION 1

SECTION 2 - Total 20 Marks

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

Sect 2 Q2
Natal Chart
4 Aug 1952, Mon
1:37 am AEST -10:00
Sydney, NSW
33°55' 151°E13'
Geocentric
Tropical
Placidus
True Node



Q1

SECTION 2 – Total 20 Marks

20 marks



Using the aspect grid supplied find only the following aspects using the stated maximum orbs. **Use only the ten main planets provided. Chiron and the Nodes are not required.**

Conjunction.....8 degree orb.

Square 8 degree orb.

Opposition..... 8 degree orb.

Trine 8 degree orb.

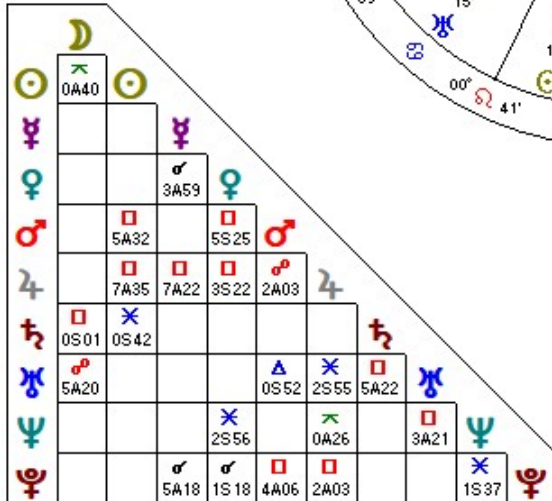
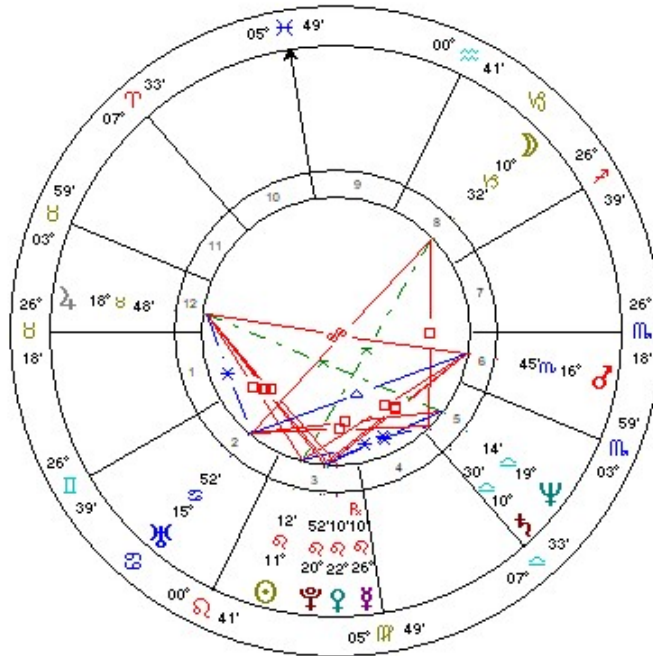
Sextile 6 degree orb.

Quincunx 4 degree orb.

Choose 20 aspects from a possible 22 = half a mark each

See Grid below

Calc 2020 S2
Natal Chart
 4 Aug 1952, Mon
 1:37 am AEST -10:00
 Sydney, Australia
 33°S52' 151°E13'
Geocentric
Tropical
Placidus
True Node



Q2

Using the planets only [and the above orbs], name one aspect pattern and list the planets that form this pattern. **T square=Mars, Jupiter, Pluto, Venus, Mercury; T Square = Moon, Uranus, Saturn; Stellium=Pluto, Venus, Mercury**

2 marks

RE Q2 – Being able to identify 3 planets in a t-square still gives full marks as a long as there are planets at each leg of the pattern

What is the Lunation Phase for this chart? **Gibbous Moon Phase**

Q3 Convert Moon and Sun to celestial longitude then subtract. = Moon 280 32 - Sun 131 12 = 149 20 therefore Gibbous 1 mark

What is the short arc midpoint of Jupiter and Neptune? **4 Leo 02**

Convert to celestial longitude/add then divide answer by 2 and convert back.

Q4 Jupiter 18 Taurus 48 = 48 48 Neptune 19 Libra 14 = 199 14: 2 marks
48 48 + 199 14 = 248 02 divide by 2 = 124 02 therefore 4 Leo 02

Q5 Which houses are intercepted. **2nd and 8th** 1 mark

List one planet in its detriment and one planet in its rulership.

Q6 **Detriment = Moon in Capricorn ; Rulership Sun in Leo** 1 mark

Which planet rules the Ascendant and what sign and house is it in?

Q7 **Venus Leo in the 3rd** 1 mark

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

26 Sagittarius 58

Q8 Formula: ASC + Sun – Moon: Convert to celestial longitude 2 marks

Asc 26 Taurus 18 + Sun 11 Leo 12 – Moon 10 Capricorn 32

56 18 + 131 12 = 187 30 (+ 360 before subtracting as figure too small) = 547 30

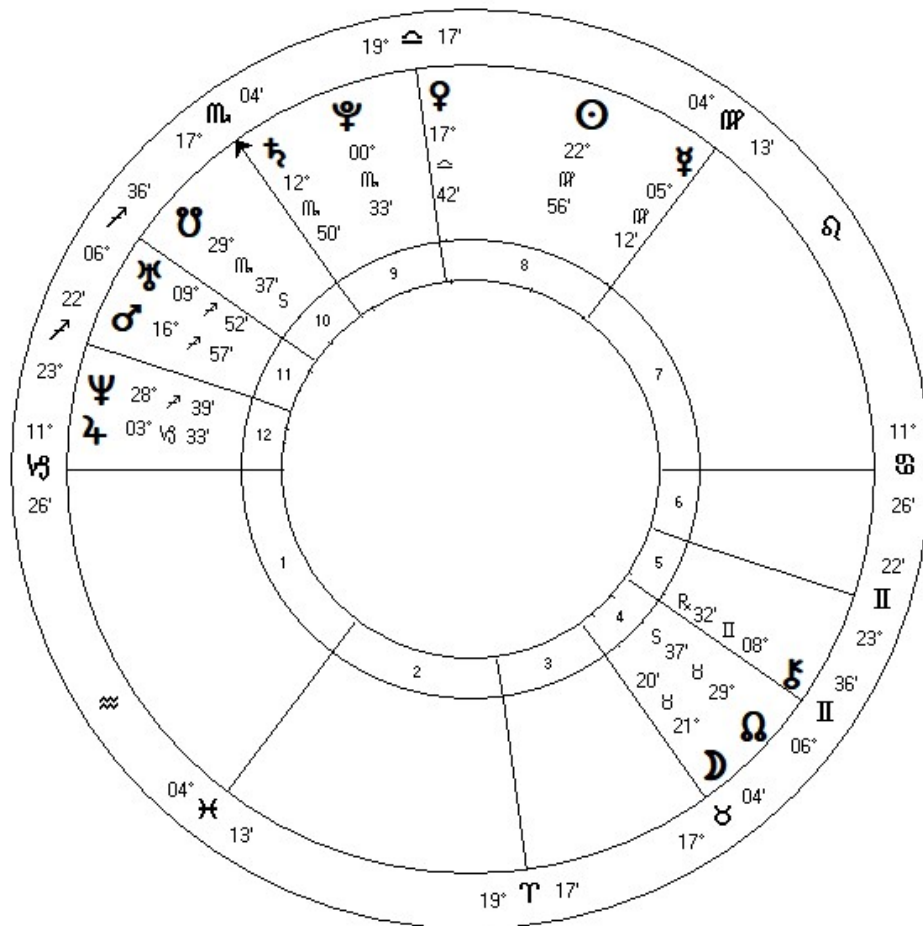
547 30 – 280 32 = 266 58 therefore 26 Sagittarius 58

END OF SECTION 2

SECTION 3 – TOTAL 30 MARKS

Harry, Prince of Wales - Placidus

Natal Chart
15 Sep 1984, Sat
4:20 pm BST -1:00
London, UK
51°N30' 000°W10'
Geocentric
Tropical
Placidus
True Node
Rating: B



All questions in this section relate to Prince Harry'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

Prince Harry's ACD: Midnight ephemeris: ACD = 25 January 1984

Noon ephemeris: ACD = 27 Jul 1984

Please note: There may be a slight difference in answers in this section depending on which Ephemerides is used. The examiners will allow for this.

Q 1 Calculate a [12] monthly Secondary Progressed Moon table for Prince Harry for 2020, starting from January 25 to the nearest **30 minutes of arc**.

ACD date using midnight ephemeris is 25 January 1984

2020 – 1984 = 36 years

Add 36 days to UTime of birth [15 September 1984] = October 21 1984

Moon position for this day is **8 degrees Virgo 33minutes 23 seconds**

6
marks

Place next to ACD for 2020 = **January 25 2020**

Monthly Adjustment .using Michelsen 24 hour Moon

Subtract 8 Virgo 33 23 from 23 seconds Virgo 24 minutes 30 seconds

= 14 degrees 51 minutes 7 and divide by 12

= 1 degree 14 minutes

Hand Calculations

January 25 2020 = ACD * 8 Virgo 33 minutes 23 seconds

February 25 9 Virgo 47

March 25 11 Virgo 1

April 25 12 Virgo 15

May 25 13 Virgo 29

June 25 14 Virgo 43

July 25 15 Virgo 57

August 25 17 Virgo 10

September 25 18 Virgo 24

October 25 19 Virgo 38

November 25 20 Virgo 52

December 25 22 Virgo 6 [Solar Fire gives the degree as 22 Virgo 7 minutes for 12am]

Q 2 How old will Harry be when he experiences his 2nd Secondary Progressed New Moon? What degree and sign was it in?

Look to find the relevant Moon Phase = 24 October 1984 at 1 Scorpio 16

Subtract this from the GMT DOB = 39 days

3
marks

Answer = 39 years at 1 Scorpio 16 (Solar Fire: 29 July 2023 = 1 Scorpio 15)

Q 3 At what age will Harry's Progressed Venus conjunct his natal Midheaven?

Position of MC = 17 Scorpio 04

Ephemeris date that Venus reaches this point = October 9 reaches 16 Scorpio 18 [by October 10 it has passed the point and is at 17 Scorpio 31]

Find the difference between these dates = 24 days

2
marks

Answer = 24 years old [but will pay 25]

Q4 How old will Harry be when his Solar Arc Saturn conjuncts his Natal Mars?

Mars is 16 Sag 57

256 57-

3
marks

Saturn is 12 Scorpio 50 222 50
 Difference = 34 degrees 7 minutes 34 07

Sun is 22 Virgo 56 + 34 degrees 7 = 27 Libra 3 minutes 172 56+
 Sun reaches this position before midnight on 20 October 34 07
 Subtract 20 October from 15 September = 35 days 207 03 = 27 Libra 03 count down
using DOB as 0 till Sun reaches this position

Answer = during his 35th year

Q5 During 2021 and 2022 transiting Neptune will oppose Harry’s natal Sun. List the exact GMT dates.
No working out sheet required.

- 1. May 25 2021 [also accept May 26]**
- 2. July 27 2021 [also accept July 28]**
- 3. March 15 2022**
- 4. 1 November 2022**

3
marks

Q 6 Using a one-degree orb, both separating and applying, list the GMT periods when Uranus will conjunct Harry’s IC *No working out sheet required.*

Time when Uranus is between 16 Taurus 4 minutes and 18 Taurus 4 minutes

3
marks

- 1. May 27 2022 [pay May 28] to July 10 [pay July 9]**
- 2. October 10 2022 [pay October 11] to November 29 or 30 Nov**
- 3. March 15 2023 [pay March 16] to April 24 2023**

Q 7 List the exact GMT date when Harry experienced his most recent Jupiter return.

No working out sheet required.

1 ½
marks

Jupiter = 3 Capricorn 33

Date was December 18 2019 [pay December 19?]

Q8 List the exact [GMT] dates and zodiacal degrees of all Solar and Lunar Eclipses for 2021. *No working out sheet required.*

2
marks

[Total] Lunar on May 26 at 5 degrees of Sag 26 minutes

[Annual]r Solar on June 10 at 19 Gemini 47

[Partial] Lunar on November 19 at 27 Taurus 14

[Total] Solar on December 4 at 12 Sagittarius 22

Q9 What were the exact [GMT] periods when Venus was retrograde during 2020? *No working out sheet required.*

1 ½
marks

May 13 to June 25

Q 10 Calculate the GMT **Adjusted Calculation Date** for the following birth data:

August 20 1960 at 1.30pm [13.30 hours]

Melbourne, Australia

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

1. GMT time of birth = 3.30am on August 20 1960
2. 24 hours – 3 hours 30 minutes = 20 hours 30 minutes
3. Add 20 hours 30 minutes to GMT sidereal time of birth 21 53 19 = 41 hours 83 minutes 19 seconds
4. Round up to 42 hours 23 minutes 19 seconds
5. Subtract 24 hours [as over 24] = 18 hours 23 minutes 19 seconds
6. Look back to find the date that this was the sidereal time = **27 June 1960**

5
marks

Answer is June 27 1960

or

1. GMT time of birth = 3.30am August 1960
2. Sidereal time from ephemeris=21 53 19 subtract
3. GMT birthtime =3 30 00
4. Difference = ACD Sidereal time 18 23 19
5. Turn back in ephemeris to this time= ACD = **27 June 1960**

END OF SECTION 3

SECTION 4 - TOTAL 20 MARKS

Answer **ONLY** 20 questions of a possible 25

No working out sheets are required for Section 4.

Please fill in your answers in the answer book provided.

1. Mars detriment occurs in what sign?
 - a. Aries
 - b. **Libra**
 - c. Aquarius
 - d. Cancer

2. The maximum separation between Venus and the Sun in a geocentric chart is what degree?
 - a. 88
 - b. **48**
 - c. 28
 - d. None of the above

3. Ceres is now defined as an:
 - a. Kuiper Belt Object
 - b. **Dwarf Planet**
 - c. Comet
 - d. both b and c

4. The Sun reaches its maximum declination north and south of the equator [and is overhead at the Tropic of Capricorn and Cancer] at
 - a. The Equinoxes
 - b. **The Solstices**
 - c. Beginning of Spring
 - d. None of these

5. Which aspect is NOT a 4th Harmonic aspect?
 - a. Conjunction
 - b. Square
 - c. Opposition
 - d. **Sextile**

6. The Inferior Conjunction of Venus and the Sun returns to the same sign of the zodiac every
 - a. 5 years
 - b. **8 years**
 - c. 19 months
 - d. 40 years

7. Which of these bodies is not a Kuiper Belt Object
 - a. **Uranus**
 - b. Pluto
 - c. Eris
 - d. Make Make

8. Which of the following pairs of planets are in mutual reception?
 - a. Venus in Libra and Mars in Aries
 - b. **Jupiter in Leo and Sun in Sagittarius**
 - c. Mars in Pisces and Saturn in Aries
 - d. Moon in Aries and Mercury in Cancer

9. The dwarf planet Eris has a cycle of
 - a. 248 years
 - b. 84 years
 - c. **557 years**
 - d. None of the above

10. An aspect of 40 degrees is known as:
 - a. Septile
 - b. **Novile**
 - c. Quintile
 - d. Decile

11. Which planet spends the least amount of its time going retrograde
 - a. **Venus**
 - b. Mars
 - c. Uranus
 - d. Mercury

12. Which of the following planets could be the final dispositor in a chart?
 - a. Mars in Leo
 - b. Mars in Aries
 - c. Saturn in Capricorn
 - d. **Both b and c**

13. Mars moves retrograde
 - a. **Once every 25-6 months**
 - b. Once a year
 - c. Twice a year
 - d. None of the above

14. The Saturn Jupiter conjunction takes place every
- a. 18 years
 - b. 20 years
 - c. 29 years
 - d. None of the above
15. In Roman mythology, the god Saturn was the father of:
- a. Jupiter
 - b. Pluto
 - c. Neptune
 - d. All of the above
16. In Medical Astrology the kidneys are ruled by:
- a. Libra
 - b. Taurus
 - c. Virgo
 - d. Scorpio
17. The time it takes the Vernal Equinox to completely precess through one sign of the zodiac is known as the "Great Month". The Great Month is approximately:
- a. 2160 years
 - b. 365 days
 - c. 25,800 years
 - d. 12,000 years
18. The Black Moon Lilith is the
- a. Lunar perigee
 - b. Point where the Moon crosses the ecliptic
 - c. Lunar apogee
 - d. A satellite of the Moon
19. Saturn is said to be dignified in what house?
- a. Tenth house
 - b. First house
 - c. Eleventh house
 - d. Ninth house
20. Which sign is not a mutable sign?
- a. Aries
 - b. Virgo
 - c. Gemini

- d. Pisces
21. During 2020 what aspect is Pluto making to Jupiter?
- a. Square
 - b. Conjunction
 - c. Sextiles
 - d. Trine
22. Using the derived house system, which house would represent your mother's brother
- a. 6th house
 - b. 10th house
 - c. 3rd house
 - d. None of the above
23. A person has Chiron at 0 degrees Aquarius, Sun at 2 degrees of Scorpio and Uranus at 2 degrees of Leo. The aspect pattern formed is known as?
- a. Grand Trine
 - b. Yod
 - c. Kite
 - d. T square
24. When finding an auspicious date for an operation you would use
- a. Relationship Astrology
 - b. Mundane Astrology
 - c. Horary Astrology
 - d. Electional Astrology
25. The Chiron return occurs around the age of
- a. Between ages 29 – 30
 - b. Between ages 49 - 51
 - c. Between ages 58-59
 - d. None of the above

END OF SECTION 4

END OF EXAM

