

CALCULATION EXAM 2015 ANSWERS

SECTION 1 - Total 30 marks

Q1 Calculate the House cusps to within a degree for the following two sets of data:

10 marks

- (a) 11 June 1966 6.49 pm
Green Bay Wisconsin USA 44N31 88W1
Standard Time Zone +6 hours West of Greenwich
Daylight Savings YES -1 hour

ANSWER

Closest Sidereal Time using Northern Placidus Tables = 11h 16m

Hand Calculations:

Computer Calculations:

MC	= 18 Virgo 02	18 Virgo 08
11	= 18 Libra 06	18 Libra 09
12	= 11 Scorpio 17	11 Scorpio 12
ASC	= 00 Sagittarius 20	00 Sagittarius 05
2	= 02 Capricorn 18	02 Capricorn 05
3	= 10 Aquarius 36	10 Aquarius 35

- (b) 18 October 1983 10.43 pm
Sydney NSW Australia 33 S 52 151 E 13
Standard Time Zone -10 hours East of Greenwich
Daylight Savings NO

10 marks

ANSWER

Closest Sidereal Time using Southern Placidus Tables = 12 hrs 33 mins

Hand Calculations:

Computer Calculations

MC	= 08 Aries 43	09 Aries 09
11	= 07 Taurus 09	07 Taurus 32
12	= 00 Gemini 33	00 Gemini 56
ASC	= 21 Gemini 55	22 Gemini 21
2	= 26 Cancer 02	26 Cancer 30
3	= 03 Virgo 47	04 Virgo 16

Q2 Calculate the longitudinal positions of the following planets to within 30 minutes of zodiacal longitude. All data below is in GMT. **10 marks**

Hand Calculations

Computer Calculations

1. Sun	29 Scorpio 36	29 Scorpio 36
2. Moon	08 Gemini 06	08 Gemini 06
3. Mercury	20 Sag 58 Retro	20 Sag 59 Retro
4. Venus	19 Libra 43	19 Libra 43
5. Mars	25 Scorpio 29	25 Scorpio 28

Moon	sextile Mercury, square Mars, trine Neptune, opp Pluto, conj NN, opp SN
Sun	square Jupiter, opp Saturn, conj Chiron, opp Uranus
Mercury	quincunx Mars, square Jupiter, opp Uranus, sextile NN, trine SN
Venus	opp Mars, trine Jupiter
Mars	sextile Jupiter, square NN, square SN
Jupiter	square Uranus, square Chiron,
Saturn	
Uranus	opp Chiron
Neptune	sextile Pluto, trine NN, sextile SN
Pluto	opp NN, conj SN

Total aspects 28 **14 marks**

Q2 Aspect pattern **3 marks**

T-square Sun opposite Uranus square Jupiter
or Mercury opposite Uranus square Jupiter

Q3 Which planet is in its exaltation? **2 marks**

Mars in Capricorn or Moon in Taurus

Q4. What is the Lunation Phase **3 marks**

= **Balsamic** Moon is 317 degrees 30 minutes ahead of the Sun

Q5 Short Arc Midpoint of the Sun and Jupiter **3 marks**

Position planet/point A (Jupiter 20 Pisces 29) convert = 350.29

Position planet /point B (Sun 12 Gemini 47) convert = + 72.49

Result = 423.16

Divide by 2 = 211.38

Convert back = 1 Scorpio 38 –this is long arc therefore **short arc is = 1 Taurus 38**

Q6 Vertex**2 marks****Answer = 21 Gemini 25**Subtract latitude of birth from 90d $90.00 - 39.34 = 50$ N 26 becomes new latitude

Northern latitude – look at table of chart IC = 17 Aquarius 33

Look at Ascendant in table of houses at New Lat. = 21 Gemini 25 (No need to reverse)

Q7 Which house/s does Jupiter rule**1 mark**2nd house & 5th house traditional**Q8 Using diurnal formula calculate Part of Fortune****2 marks**

Formula = Ascendant + Moon – Sun

Convert Ascendant to degree of Zodiac 9.51 Scorp 219.51 +

“ Moon “ “ 0.17 Taurus 30.17

Add together 250.08

Convert Sun to degree of Zodiac 12.47 Gemini 72.47

Minus from sum of ASC + Moon 177.21

Convert back to sign & minute **27.21 Virgo**

SECTION 3 – 40 marks

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.

Q1 Secondary Moon table for Rafael 2015 29 years old 6 marks

ACD date using midnight ephemeris is 27th Sept 1985.

Count 29 days from birthday of 3rd June 1986 = 3rd July 1986

Moon position on this day is 24.49 Taurus – place next to ACD Aug 28th

Monthly Adjustment using Michelsen 12 hour Moon

Midnight position 4th July 1986 (day after) 6.37 Gemini Minus (36.37)

Midnight position 3rd July 24.49 Taurus

11.48

divide by 12 for monthly rate of travel = **.59**

so add and subtract from ACD date of Sept 27th 1985

Attention Aureas Ephemerides Users

Due to the differences between the 12 hour Michelsen and 24 hour Aureas Ephemeris the monthly adjustment will vary but will still be within allowable orb.

Hand Calculations

Computer calculations

27 th Jan 2015	16.57 Taurus	16.55 Taurus
27 th Feb	17.56	17.55
27 th March	18.55	18.50
27 th April	19.54	19.50
27 th May	20.53	20.48
27 th June	21.52	21.48
27 th July	22.51	22.46
27 th Aug 15	23.50	23.47
27 th Sept 15 ACD	24.49	24.47
27 th Oct	25.48	25.45
27 th Nov	26.47	26.45
27 th Dec	27.46	27.43

Q2 Age of 2nd Secondary New Moon = 33 years old 4 marks

Using GMT date (3 June 1986) as 0 count down in ephemeris until you reach 2nd New Moon (Sun & Moon in Cancer) = 7 July 1986 at **14 degrees Cancer**

Day for a year therefore = 34 years old – however **subtract 1 year** because ACD year before!

Q3 Age when Progressed Sun conjuncts Natal Venus. 34 years old 3 marks

N. Venus is at 15 Cancer 40. Count down from Sun at 12 Gem 47 until Sun reaches 15 Cancer 33 on 8 July = 35 years (subtract 1 year for ACD in year before) = **34 years** [birth year = 1986 plus 34 = **2020**]

Q4 Age Solar Arc Mars conjuncts natal IC = 25 years of age 4 marks

Subtract	IC	=	17 Aqu 34	317 34
	Mars	=	22 Cap 56	<u>292 56</u>
			SA difference	= 24 38
	Sun	=	12 Gemini 47	72 47
ADD			SA Diff.	<u>24 38</u>
				= 97 25 = 7 Cancer 25

Go down ephemeris until Sun reaches 7 Cancer 25 (29 June) = 26 years (ACD adjustment year before = 25 years)

Solar Fire = Mar 2012 Subtract this from GMT DOB = **25 years of age.**

Q5 During 2016 and 2017 Transiting Uranus makes an exact square to Rafael's Natal Mars. List the exact GMT dates of this aspect. 3 marks

Mars = 22 Capricorn 56

- 26 May 2016
- 4/5 October 2016 retro
- 17/18 March 2017

Q6. List the exact GMT dates when Transiting Pluto is opposite Rafael's Natal Venus.
3 marks

Venus = 15 Cancer 40

- 18/19 January 2016
- 30 July 2016 retro
- 20/21 Nov 2016

Q7. Using a one degree orb both applying and separating, list the periods when Rafael will experience his 1st Saturn Return.
4 marks

Natal Saturn 5 Sag 55 - so from 4 Sag 55 to 6 Sag 55

- **March 9/10 - March 19 2015** (Saturn going retrograde on 4 Sag 55.8 in American Ephemeris and 4 Sag 56 in Aureas Eph)
- **Nov 8th – Nov 25th 2015** (Saturn moves forward from 4 Sag 55 to 6 Sag 55)

Q8. List the exact [GMT] dates and zodiacal degrees of all solar and lunar eclipses for 2016.
4 marks

Solar Eclipses

Total Eclipse 9th March 18 Pisces 56

Annular 1st September 09 Virgo 21

Lunar Eclipse

Annular 23rd March 03 Libra 17

Annular 16th September 24 Pisces 20

Q9. What is the exact (GMT) period when Saturn is retrograde during 2015?
3 marks

14th March to 2nd August

10. Calculate the Adjusted Calculation Date for the following birth data:

6 marks

13 March 1965 8.15 pm

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

Step 1: GMT DOB : 20 15
- 10 00 = 10. 15 am

Step 2: 24 00
- 10 15 = 13 45

Step 3 Sid Time 11 21 39
+13 45 00 = 25 06 39

Step 4 25 06 39
- 24 00 00 = 1 06 39 Go back in eph. Find Sid Time
= **8 October 1964** (Midnight Eph.)
7/8 April 1964 (Noon Eph.)

SECTION 3 – TOTAL 40 MARKS