

ASTROCHALLENGE 2017

READY FOR LAUNCH

26 MAY

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29 MAY

|

3 JUNE

Day 1: 29 May

Preliminaries: MCQ/DRQ/OBS

Attendance

- When all team members have arrived...
 - Please take your attendance AS A TEAM at the benches outside of this LT
- Look for Dino & Wilson
- SNRS: you may leave your equipment at the front of the LT
 - Submit your observation round reference material to the front (pass them to me)
 - Ensure that the school is indicated on your reference material

Timetable (Day 1)

Time	Event
09:00 – 10:00	Attendance Taking
10:00 – 10:30	Opening Address
10:30 – 12:30	Multiple Choice Questions Round
12:30 – 14:00	Lunch
14:00 – 16:15	Data Response Questions Round
16:15 – 16:30	Observation Round Reminders (Senior Category)*
16:30 – 20:00	Dinner Time & Telescope Setup
20:00 – 22:00	Observation Round (Senior Category)

*Students taking part in Junior Category may be dismissed at 1615H

AC Vice Chairperson's Address

Nico Fendy, President, NTU Astronomical Society (Events)

AC Chairperson's Address

Bok Ivan, President, NUS Astronomical Society



**KEEP
CALM**

AND

JUST BREATHE...

DEEPLY!

Head QM's Advice



AC 2017: MCQ

Instructions

- Ensure that you
 - Not seated beside someone of the same school
 - Non-programmable Calculator (no GC)
 - 1 copy of the Formula Book
 - 1 copy of the MCQ Answer Sheet
 - 1 copy of the MCQ Question Paper (correct category)

AstroChallenge 2017 MCQ Paper (JUNIOR)

PLEASE READ THESE INSTRUCTIONS CAREFULLY

1. Do not turn over this page until instructed to do so.
2. This paper consists of 13 printed pages, excluding this cover page.
3. You have 2 hours to finish all questions in this paper. If you think there is more than one correct answer, choose the most correct answer.
4. At the end of the paper, submit this booklet together with your answer script.
5. Your answer script should clearly indicate your name, school, and team.
6. It is your responsibility to ensure that your answer script has been submitted.

AstroChallenge 2017 MCQ Paper (SENIOR)

PLEASE READ THESE INSTRUCTIONS CAREFULLY

1. Do not turn over this page until instructed to do so.
2. This paper consists of 17 printed pages, excluding this cover page.
3. You have 2 hours to finish all questions in this paper. If you think there is more than one correct answer, choose the most correct answer.
4. At the end of the paper, submit this booklet together with your answer script.
5. Your answer script should clearly indicate your name, school, and team.
6. It is your responsibility to ensure that your answer script has been submitted.

Please check that you have the correct
printed pages

Instructions

- Two (2) marks will be given for a correct answer, -1 mark for an incorrect answer
- 0 marks for blanks. A maximum of 7 blank answers is allowed from each individual,
- After which all other blank answers are considered as incorrect answers.

Instructions

- If you have questions at any point in time: raise your hand.
- You may submit your answers/question paper 1 hour after the start of the paper. However, there will be no submissions in the last 15 minutes.
- Write your answers on the MCQ Answer Sheet
- You have 2 hours to complete the paper.
- If there are no questions, we will begin the paper at...

Corrigenda

- JNR, Q14
 - You see *Venus rising* in the East...
- JNR, Q31
 - It is September 21st in *Quito*, Ecuador (0°S 78°W , GMT -5h). At what *local solar time* would...
- SNR, Q44
 - B: Stefan-Boltzmann Law
- *Others include wrong reference between abstract to questions. (corrected in the attached copy.)*

End of MCQ Paper

- Please be quiet and remain in your seats while your papers are collected
- If you want your MCQ Paper back, write your name and school clearly at the front of the question paper
- You are not allowed to leave this venue until all the papers are accounted for and collected

Answers (Junior)

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
B	E	D	A	D	C	C	E	D	B
Q11	Q12	Q13	Q14	Q15	Q16	Q17	Q18	Q19	Q20
A	C	B	E	A	C	A	C	C	B
Q21	Q22	Q23	Q24	Q25	Q26	Q27	Q28	Q29	Q30
D	D	C	B	D	D	C	C/D	D	E
Q31	Q32	Q33	Q34	Q35	Q36	Q37	Q38	Q39	Q40
C	E	E	E	B	D	A	C	C	A
Q41	Q42	Q43	Q44	Q45	Q46	Q47	Q48	Q49	Q50
C	C	C	E	B	C	E	A	D	A

Answers (Senior)

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
D	E	C	E	B	D	A	B	A	C
Q11	Q12	Q13	Q14	Q15	Q16	Q17	Q18	Q19	Q20
D	B	C	B	B	E	C	D	E	D
Q21	Q22	Q23	Q24	Q25	Q26	Q27	Q28	Q29	Q30
B	B	C	B	B	B	D	E	C	A
Q31	Q32	Q33	Q34	Q35	Q36	Q37	Q38	Q39	Q40
B	C	D	D	A	A	E	C	A	A
Q41	Q42	Q43	Q44	Q45	Q46	Q47	Q48	Q49	Q50
E	E	B	C	B	D	C	C	D	B

Lunch Time



AC 2017: DRQ

Instructions

- Team leaders please come forward to collect the materials for this round
- Ensure that you have
 - Non-graphic calculator
 - 1 copy of the Formula Book per team
 - 5 sheets of writing paper, if you need more please raise your hand
 - 1 copy of the DRQ paper (correct category)
- Check you have the correct number of pages

Instructions

- Write your answers on the writing paper provided with your **school and team clearly** indicated at the front
- Write down the question attempted at the **top left hand corner**
- And the **page number at the bottom of each writing paper** for easy reference
- If you have questions at any point in time: raise your hand.
- You may submit your answers/question paper 1 hour after the start of the paper. However, there will be no submissions in the last 15 minutes.
- You have 2 hours to complete the paper.

Corrigenda

- JNR

- SNR

End of DRQ Paper

- Please be quiet and remain in your seats while your papers are collected
- Team leaders please come forward to submit the papers
- If you want your DRQ Paper back, write school and team clearly at the front of the question paper
- You are not allowed to leave this venue until all the papers are accounted for and collected
- Juniors you are dismissed
- Seniors please kindly stay behind for a quick briefing on the Observation Round

Observation Round

- Return to the foyer outside this LT by 6.30pm to start setting up
 - You may seek any QM present to verify your setting up procedure and alignment
- In the event of wet weather please gather in front of this LT under shelter
 - You should still set up your equipment under sheltered conditions
- If only cloudy, please carry on

Observation Round

School	AJC	ACSI	HCI	NJC	NUSH
QM(s)	Clarence Tan/Keven	Dino/ Wilson	Christopher	Winston	Ivan/Kim

School	RI	RVHS	SJI	VJC
QM(s)	Qi En/Han Yu	Zong Yang	Yi Zhi	Mei Ying/ Wen Qin

Roaming Quizmasters: Kia Yee, Clarence, Mooney

Observation Round

- Theory Observation Paper will be activated and carried out at assigned areas: