



**SCIENCE OLYMPIAD**  
— AT THE —  
**UNIVERSITY OF FLORIDA**

Northern Regional: January 19<sup>th</sup>, 2019

# Astronomy C Answer Sheet

**Name(s):** \_\_\_\_\_

**Team Name:** \_\_\_\_\_

**School Name:** \_\_\_\_\_

**Team Number:** \_\_\_\_\_

**Rank:** \_\_\_\_\_

**Score:** \_\_\_\_\_

**Team number:** \_\_\_\_\_

**Part 1: Stellar Evolution and Galaxies**

1. \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_ [4]
2. \_\_\_\_\_ [1]
3. \_\_\_\_\_ [1]
4. \_\_\_\_\_  
\_\_\_\_\_ [2]
5. \_\_\_\_\_ [1]
6. \_\_\_\_\_ [1]
7. \_\_\_\_\_ [1]
8. \_\_\_\_\_ [1]
9. \_\_\_\_\_ [1]
10. \_\_\_\_\_ [1]
11. \_\_\_\_\_ [2]
12. \_\_\_\_\_ [2]
13. \_\_\_\_\_ [2]
14. \_\_\_\_\_ [2]
15. \_\_\_\_\_ [1]
16. \_\_\_\_\_ [1]
17. \_\_\_\_\_ [1]
18. \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_ [2]
19. \_\_\_\_\_ [3]
20. \_\_\_\_\_ [2]

## Part 2: Deep Space Objects

21. \_\_\_\_\_ [1]

22. \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_ [2]

23. \_\_\_\_\_ [2]

24. \_\_\_\_\_ [1]

25. \_\_\_\_\_ [1]

26. \_\_\_\_\_ [1]

27. \_\_\_\_\_ [1]

28. \_\_\_\_\_ [2]

29. \_\_\_\_\_ [1]

30. \_\_\_\_\_ [3]

31. \_\_\_\_\_ [4]

32. \_\_\_\_\_ [2]

33. \_\_\_\_\_ [2]

34. \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_ [5]

35. \_\_\_\_\_ [3]

36. \_\_\_\_\_ [3]

37. \_\_\_\_\_ [4]

38. \_\_\_\_\_ [2]

39. \_\_\_\_\_ [2]

40. \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_ [5]

## Part 3: Calculations and Interpretations

\*For problems including calculations, be sure to show all work in the space provided. Points will be deducted for answers without work shown.

41. \_\_\_\_\_[2]

42. \_\_\_\_\_[2]

43. \_\_\_\_\_[2]

44. \_\_\_\_\_[3]

45. \_\_\_\_\_  
\_\_\_\_\_ [2]
46. \_\_\_\_\_  
\_\_\_\_\_ [3]
47. \_\_\_\_\_  
\_\_\_\_\_ [2]
48. \_\_\_\_\_ [3]

49. \_\_\_\_\_ [3]