Rank: \_\_\_\_\_ Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Mandatory Training Day Make-Up

Level – 1 Aerospace

PO 340 – IDENTIFY ASPECTS OF SPACE EXPLORATION

1. In what year did training of Canada’s astronauts begin?
2. When did Canada’s first astronaut visit space?
3. Who was Canada’s first astronaut?
4. In what missions did these astronauts take part?
5. What part did these astronauts play on these missions?
6. What education and experience did these astronauts bring to the missions?
7. Who was America’s first astronaut to go into space?
8. Which movie portrays the Mercury program?
9. How many manned missions were there in the Mercury program?
10. Who was the Gemini Project Manager?
11. How many astronauts were on a Gemini flight?
12. Which astronauts accomplished the first docking with another space vehicle?
13. Which family of launch vehicles were used for Project Apollo?
14. Who was chief of systems engineering for the Apollo Project?
15. What was the date of Apollo’s first manned moon landing?
16. Which Salyut space stations were considered to be second generation?
17. What does *Mir* mean in Russian?
18. Who were the first man and woman in space?
19. Who was America’s first astronaut to go into space?
20. When did *Apollo 11* land on the moon?
21. Who was chief of systems engineering for the Apollo Project?
22. Where is DFL located?
23. Analogue sites are used to develop what?
24. List some CSA international partners.
25. Why are telecommunication satellites so important to the CSA?
26. How can earth-observation satellites assist scientists monitoring and protecting the environment and managing resources?
27. Name the CSAs medical group.
28. Where are the three CARN sites in Canada?
29. What are the four basic types of missions that CSA participates in?
30. Where was a Canadian weather station delivered in 2008?
31. Who has been called the father of modern astronautics?
32. Who has been called the father of modern rocketry?
33. When was NASA created?
34. In what year were the two Voyager spacecraft launched?
35. Which Voyager spacecraft visited Saturn?
36. For whom was the golden record prepared?
37. What is the mission of the Phoenix lander?
38. Will the Phoenix mission be capable of moving about on Mars?
39. Why would we search for water on Mars, Titan or Enceladus?
40. What year was Sputnik-1 launched into space?
41. What outstanding discovery of the International Geophysical Year did Explorer provide?
42. What type of assist did Cassini-Huygens use four times to accelerate?
43. What is a satellite?
44. When is the planet Venus visible?
45. How many planets are visible to the naked eye?
46. What makes stars visible?
47. What are constellations?
48. What is the easiest way to observe planets?
49. What do astronauts use to exercise?
50. What happens to an astronaut in zero gravity?
51. How is the cardiovascular system affected in space?
52. Why are dehydrated foods used by astronauts for some of their meals?
53. What do astronauts use to wash their hands and hair?
54. Why would salt and pepper be a problem in a space environment?
55. What are some of the constraints of the spacesuit?
56. What law of motion applies to moving in space?
57. Why are tools used in space two to three times larger than tools used on Earth?
58. What are the three components of the GPS?
59. How many satellites does it take to mathematically establish a location?
60. How is distance to a single satellite determined?
61. How many GPS satellites are in orbit?
62. What is the shape of a GPS satellite orbit?
63. What is a station-keeping manoeuvre for?
64. What critical piece of information does a GPS receiver need to find to calculate its position?
65. What are the five main categories of GPS applications?
66. Why must a GPS receiver always calculate a correction factor for its internal clock?
67. Which was the first ISS module to be launched?
68. Which three modules are research facilities on the ISS?
69. What is Canada’s contribution to the construction of the ISS?
70. What is NASA’s SkyView?
71. Where can more information about operating SkyView be found?
72. What two parameters are required to operate SkyView?