Paper 1 / SL / TZ2 / May 2019

1. A
2. C
3. D
4. A
5. B
6. C
7. D (revised)
    To throw the tool away, the astronaut must have done some work on it, so the total KE has increased.
8. A
9. D
10. C
11. B
12. A
13. C
14. B
15. B
16. D (revised)
    $n_{glass}\sin\theta_{glass} = n_{liquid}\sin\theta_{liquid} = n_{air}\sin\theta_{air}$ so the angle of refraction in air (or the fact that there is total internal reflection) does not depend on the intermediate layer.

17. D
18. B
19. A
20. D
21. B (revised)
    Cause and effect are not clear in this question. Should have stated current carrying wire.
22. D
23. D
24. A
25. D
26. C
27. C
28. B
29. B
30. D