

Mark schemes

1.

A

$-1.3 \times 10^7 \text{ C kg}^{-1}$

[1]

2.

D

W^+

[1]

3.

A

$\Lambda^0 + \pi^-$

[1]

4.

B

$1.2 \times 10^{-14} \text{ m}$

[1]

5.

D

repulsive attractive negligible

[1]

6.

C

$p + e^- + \bar{\nu}_e$

[1]

7.

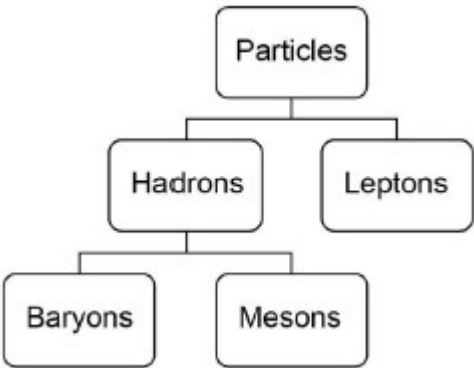
C

using monochromatic light of higher frequency

[1]

8.

A



[1]

9.

A

A	μ^+	✓	✓	
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[1]

- | | | | |
|-----|---|--|-----|
| 10. | A | $\alpha + \beta^- + \beta^- + \alpha + \alpha$ | [1] |
| 11. | A | <i>up quark down quark neutrino</i> | [1] |
| 12. | B | <i>It has a charge of $-1.6 \times 10^{-19} \text{ C}$.</i> | [1] |
| 13. | A | | [1] |
| 14. | C | | [1] |
| 15. | B | | [1] |
| 16. | D | | [1] |
| 17. | B | | [1] |
| 18. | B | | [1] |
| 19. | B | | [1] |
| 20. | D | | [1] |
| 21. | A | | [1] |
| 22. | B | | [1] |
| 23. | C | | [1] |
| 24. | B | | [1] |
| 25. | C | | [1] |

Particles MCQ

26.	C	[1]
27.	A	[1]
28.	B	[1]
29.	A	[1]
30.	C	[1]
31.	A	[1]
32.	B	[1]