



A-Level Chemistry

Alkanes

(Multiple Choice)

Mark Scheme

Time available: 31 minutes

Marks available: 27 marks

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Mark schemes

1. D
 $\bullet\text{CH}_3 + \text{Cl}_2 \rightarrow \text{CH}_3\text{Cl} + \text{Cl}\bullet$ [1]
2. A
It can be removed from car exhaust gases by a catalytic converter. [1]
3. C
C-C bonds are broken [1]
4. D
CH₃Cl and HCl [1]
5. D
 $\text{CH}_3\text{Cl} + \text{Cl}\bullet \rightarrow \text{CH}_2\text{Cl}\bullet + \text{HCl}$ [1]
6. A [1]
7. B [1]
8. D [1]
9. D [1]
10. C [1]
11. A [1]
12. D [1]
13. C [1]
14. C [1]
15. D [1]

16. C [1]
17. A [1]
18. A [1]
19. C [1]
20. C [1]
21. B [1]
22. B [1]
23. B [1]
24. D [1]
25. C
$$C_{16}H_{34} \rightarrow C_8H_{18} + 2C_2H_4 + C_4H_8$$
 [1]
26. D
Kerosene is a mixture of compounds [1]
27. C
Free-radical substitution [1]