

### Topic Test 3

3. Adelaide S-SE, Pt Hedland E, Alice Springs E, Perth NE, Townsville NE.
4. Summer – presence of the low pressure over central Australia and high pressure in the Bight.
5. Adelaide Sm, Darwin Tm, Alice Springs Tc, Perth Tc, Hobart Sm.
6. Perth should be warm to hot with N-NW winds bringing hot air from central Australia. Skies should be clear and conditions fine (no rain).

8. Cloud cover increases, pressure decreases, temperature decreases, there is a possibility of rainfall and wind speed will increase.
9. Melbourne NW, Darwin calm, Sydney N, Perth S-SW, Hobart NW
10. Hobart as the isobars are closer together.
11. Adelaide Tc, Perth Sm
14. Adelaide S-SW, Brisbane calm, Alice Springs W-SW, Perth SW, Townsville NE.
15. Winter – High located over the centre of Australia, low pressure and rainfall over southern Australia.
16. Adelaide Sm, Brisbane Tm, Darwin E/Tm, Perth Sm, Townsville NE.
17. Perth will be cloudy with moderating winds from the SW – Sm air mass is bringing moist air and possible rainfall to Perth. The second cold front will continue to bring these conditions over the next few days.
18. Succession of low pressure cells and cold fronts. They are intense lows with rapid uplift and as a result high rainfall.
20. Summer – tropical cyclone Mabel off NW coast and high pressure cell over the Bight.
21. Melbourne SE, Sydney N, Townsville NE, Perth NE, Brisbane E-NE.
22. Adelaide Sm, Brisbane Tm, Darwin E/Tm, Perth Tc, Townsville Tm.
23. Adelaide mid 20's, Perth mid – high 30's
24. Two cold fronts correspond with the cloud bands. Tropical cyclone off the NW coast is obvious.
25. Adelaide will be warm, yet cloudy as it is a summer situation. The fronts that have passed will reduce temperatures and bring some rainfall to SA. Mid 20's – low 30's will be the temperature.

### Topic Test 4

1. A 4-5°C, B 8-9°C
2. False, True, False, True, True.
3. Darwin, High temperatures and high monsoonal rain
4. Perth, Winter rainfall – summer drought, warm average temperatures in summer

### Topic Test 5

1. Low
2. High
3. Melbourne, NW – strong winds, Perth SW – slight to moderate.
4. Perth, Adelaide, Hobart, Brisbane
5. Temperature will decrease, Pressure will decrease, winds will change direction from NW-S-SW, Wind speed and cloud cover will increase and there is a possibility of rainfall.
6. 1024 hpa
7. 977 hpa
8. Tropical cyclone Agnes
9. Cold fronts
10. Warm front
11. Frontal rainfall
12. Orographic or convectional
13. West
14. Northeast
15. Melbourne Sm, Perth Tc, Townsville Tm.
16. Tm (warm and moist) air mass coming onto a hot continent forcing it to rise, cool and condensation to occur. Move towards the east over SA probably resulting in rainfall.
17. Warm to mild – high cloud cover – moderate westerly winds with some likelihood of rain later.