



Sub-strand 3.6 — TEMPERATURE (°C & K)

SECTION A — MULTIPLE CHOICE (20 marks)

1. 0°C in Kelvin approx =
   A. 273 K B. 100 K C. −273 K D. 373 K
2. Convert 27°C to Kelvin (use +273):
   A. 300 K B. 250 K C. 27 K D. 273 K
3. If temperature falls from 20°C to 12°C the decrease is:
   A. 8°C B. 32°C C. 12°C D. 28°C
4. Which is freezing point of water in °C?
   A. 100°C B. 0°C C. −273°C D. 273°C
5. Convert 0 K to °C (approx):
   A. −273°C B. 273°C C. 0°C D. −100°C
6. 100°C in Kelvin =
   A. 373 K B. 100 K C. 1273 K D. 173 K
7. Increase from 15°C to 20°C is:
   A. 5°C B. 35°C C. −5°C D. 0°C
8. Which of these is highest: 295 K, 19°C, 290 K? (Use approx: 19°C = 292 K):
   A. 295 K B. 19°C C. 290 K D. equal
9. A thermometer reads −5°C. In Kelvin approx:
   A. 268 K B. 278 K C. 268°C D. 2680 K
10. If temp at noon 22°C and at night 16°C average =
    A. 19°C B. 18°C C. 20°C D. 38°C
11. A change of 10 K equals change of:
    A. 10°C B. 0°C C. 283°C D. 273°C
12. Convert 310 K to °C:
    A. 37°C B. 310°C C. 283°C D. −37°C
13. If midday 32°C and evening 24°C, difference =
    A. 8°C B. 56°C C. 24°C D. 32°C
14. 273 K is equal to:
    A. 0°C B. 273°C C. −273°C D. 100°C
15. Convert −10°C to Kelvin:
    A. 263 K B. 283 K C. −263 K D. 10 K
16. If morning −2°C and afternoon 8°C, temperature rose by:
    A. 10°C B. 6°C C. −10°C D. 0°C
17. Kelvin scale starts at:
    A. absolute zero
    B. freezing point
    C. boiling point
    D. room temperature
18. Which is higher: 20°C or 293 K? (293 K ≈ 20°C)
    A. They are equal
    B. 20°C higher
    C. 293 K higher
    D. Cannot compare
19. If temperature drops by 12°C from 35°C final =
    A. 23°C B. 47°C
    C. 12°C D. 35°C



