

# **Gas-Cooled Reactor, Advanced Heavy Water Reactor**

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## 1 Quiz

### 1.1 Questions

1. Name the coolant used in gas cooled reactor.
2. Which one of the following is used as moderator in gas cooled reactor.  
(a) helium (b) Carbon dioxide (c) graphite (d) hydrogen
3. Name the material for cladding in gas cooled reactor.
4. Which one of the following represents the difference between GCR & AGCR?  
(a) use of enriched fuel in AGCR (b) use of enriched fuel in GCR  
(c) presence of heat exchangers within reactor vessel in GCR  
(d) presence of heat exchangers within reactor vessel in AGCR
5. Expand TRISO
6. Name the coolant that is best suited for high temperature gas reactor.
7. The moderator and coolant in AHWR are heavy water and light water
8. Which of the two operates at pressure higher than the other?  
(a) PWR (b) AHWR
9. How many coolants are used in fast reactors?
10. Which of the following distinguishes fast reactors from thermal reactors?  
(a) absence of moderator in fast reactors  
(b) absence of control rods in fast reactors  
(c) use of liquid sodium as coolant in fast reactors  
(d) low level of fuel enrichment in fast reactors

### 1.2 Answers

1. Carbon dioxide
2. (c) graphite

**3.** Magnox (an alloy of Magnesium)

**4.** (a) & (d)

**5.** Tristructural-isotropic

**6.** Helium

**7.** The moderator and coolant in AHWR are heavy water and light water

**8.** (b) AHWR

**9.** Three coolants

**10.** (a) & (c)