







A Quiz QUIZ 9		₹
Attempt Result		
Question 1		
	Which of the following statements concerning the Black Scholes formula is true?	
	▼ There are exact solutions for option sensitivities for the Black Scholes model.	
	☐ Perpetual American options have a closed solution.	
	☐ There is a closed solution for options with early exercise.	
	✓ The Black Scholes use the Gaussian cumulative distribution function (cdf).	
	✓ Put-call parity relates put and call option prices.	
	▼ The Black Scholes use the Gaussian probability density (pdf) function.	
	☐ There is a closed solution for plain options.	
	The Black Scholes formula is valid for non-constant volatility.	
Question 2		
	Which of the following concerning FDM is true?	
	☐ There are no constraints on the step sizes in space and time with explicit FDM.	
	☑ Divided differences can have first-order or second-order accuracy.	
	▼-Explicit FDM require the solution of a matrix system at each time level.	
	There are no constraints on the step sizes in space and time with implicit FDM.	
	They replace partial derivatives by divided difference approximations.	
Question 3		
	Which of the following concerning the Explicit Euler method is true?	

	 ✓ EE is first order accurate in the time direction. ☐ The Explicit Euler (EE) method is unconditionally stable. ✓ The Crank Nicolson method is unconditionally stable and second-order accurate. ✓ Oscillations occur with EE if the mesh time step is not of the same order as the square of the mesh size in space. You answered this question correctly.
Question 4	
	Which of the following concerning the Monte Carlo method is true?
	☑ The Monte Carlo (MC) is less efficient than FDM.
	☑ Computing option sensitivities with MC is feasible (but not efficient).
	■ It is not possible to price barrier options using the MC method.
	Pricing American options using FDM is easier than with MC.
	☐ The FDM schemes used to discretise SDEs can give biased results.
Question 5	
	Which of the following concerning the Binomial Method Carlo method is true?
	BM cannot be used for two factor models.
	☐ The Binomial Method (BM) can be used to price American options.
	☑ BM can give 'zigzag' and oscillatory solutions.
	☑ BM is less flexible than FDM.
Result	
Score:	1 correct answers out of 5 questions. You need at least 5 correct answers to pass this quiz.
Pass/Fail:	Failed (Take this quiz again!)



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