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Reg. No

Name

M. COM DEGREE END SEMESTER EXAMINATION - APRIL 2018 SEMESTER 4 : COMMERCE COURSE : 16P4COMT19EL ; DERIVATIVES AND RISK MANAGEMENT

(For Regular - 2016 admission)

Time : Three Hours

Max. Marks: 75

Section A Answer any 10 (2 marks each)

- 1. Who are the participants in derivative markets? Name them.
- 2. Differentiate between Exchange Traded derivatives and Over-the-Counter derivatives.
- 3. Explain the following concept in the language of financial derivative: (a) Long position (b) Short position
- 4. Explain the following concepts :
 - In-the-money
 - Out-of-the-money
 - At-the-money
- 5. An amount of Rs. 70,000 is invested for 2 years at 10% p.a. Calculate the terminal value of the investment at the end of the 2nd year, assuming continuous compounding of interest.
- 6. How a forward contract differs from a spot contract?
- 7. What do you mean by value of a forward contract?
- 8. What do you mean by convergence?
- 9. What is a market order?
- 10. What are the differences between American style and European style of an option?
- 11. Why swaps are designed as long-term contracts?
- 12. What are sector-wise stock indices? Explain their significance.

(2 x 10 = 20)

Section B Answer any 5 (5 marks each)

- 13. How does a bull and bear speculator functions?
- 14. Write an essay on "Growth of Exchange Traded Derivatives Markets" in India.
- 15. What is credit risk associated with a forward contract?
- 16. Briefly discuss the following risk aversion method of futures pricing: (a) The Normal Backwardation Method (b) The CAPM
- 17. Determine the futures price from the following data:

Spot price	Rs. 20,00,000
Cost-of-carry	12 % p.a.
Carry period	6 Months
Use cost of carry model.	

- 18. What are the uses of options?
- 19. Explain the followings:

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(a) Long call(b) Long put(c) Short call(d) Short put

20. Explain how currency forwards are used for speculative gains.

(5 x 5 = 25)

Section C Answer any 3 (10 marks each)

- 21. What are the uses of financial derivatives? Discuss.
- 22. An exchange in a future market standardises the various terms of a futures contract. Discuss with suitable example.
- 23. Discuss various types of Interest Rate Swaps with suitable examples.
- 24. How to calculate call value and put value by using Black Scholes option pricing model? Discuss.
- 25. Call option on Reliance Industries, expiring after 3 months from now, has exercise price of Rs. 900. The current market price of the share is Rs. 870. An interim dividend of Rs. 8 per share is expected from the company after 5 months. The variance of share prices is measured as 132%. The risk-free interest rate is 6.75% p.a. Calculate the call option price using Black-Scholes pricing formula. What would be the price of a put option with same expiry and exercise price?

(10 x 3 = 30)