(Pages : 3) **8241**

Reg. No. : .....

Name : .....

Third Semester B.C.A. Degree Examination, December 2015
Career Related FDP Under CBCSS
CP 1344 : PROGRAMMING IN JAVA
(2014 Admission)

Time : 3 Hours Max. Marks : 80

SECTION – A

(Very Short Answer Type)

One word to maximum of **one** sentence, Answer **all** questions. **(10×1=10 Marks)**

1. What is static in Java ?
2. What are objects ?
3. What is the use of branch statement ?
4. Write the steps in the looping process.
5. What is meant by type conversion ?
6. What is a package ?
7. What is the finally clause ?
8. What is a Thread ?
9. Expand API.
10. What are Swings ?

P.T.O.

SECTION – B
(Short Answer)

Not to exceed **one** paragraph, answer **any eight** questions. **Each** question carries **two** marks. **(8×2=16 Marks)**

11. Illustrate multiple assign clause and alter clause in for loop.

12. How polymorphism plays a useful role in Java ?

13. What is dynamic binding ?

14. Differentiate between method overriding and method overloading.

15. What is inheritance ?

16. What are wrapper classes ?

17. What are command-line arguments ?

18. What is the use of 'Super' keyword ?

19. What is the use of ifstream() ?

20. What are inline functions ?

21. What is catching multiple exceptions ?

22. What is the function of 'ItemListener' ?

SECTION – C
(Short Essay)

Not to exceed **120** words, answer **any six** questions. **Each** question carries **four** marks. **(6×4=24 Marks)**

23. Explain the concepts of Object Oriented programming.

24. Explain constructor overloading with example.

25. Explain different types of input/output manipulators with example.

26. Differentiate between pass by value and pass by reference with proper examples.

27. Write notes on Data Input Stream.

28. Write a program in Java using array of objects.

29. Explain Vector classes.

30. Explain the life-cycle of a thread.

31. How to display an image in Java ?

SECTION – D

(Long Essay)

Answer **any two** questions. **Each** question carries **15** marks. **(2×15=30 Marks)**

32. Explain Java data types and operators.

33. What is inheritance ? Explain different types of inheritance with suitable examples.

34. Explain multithreading in detail.

35. Explain handling graphics in Java.

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Third Semester B.C.A. Degree Examination, December 2015
Career Related FDP Under CBCSS
Group 2(b) : Computer Applications
CP 1341 : COMPUTER NETWORKS
(2014 Admission)

Time : 3 Hours Max. Marks : 80

PART – A

Answer **all** questions, **each** carries **one** mark. **10**

1. Give an example of simplex mode of data flow.
2. What is Nyquist bit rate formula ?
3. What is microwave frequency range ?
4. Expand the term ARPANET.
5. Which standard organisation used for defining LAN standard ?
6. Name the two sublayer used in Data Link Layer.
7. Which layer in OSI model used Router ?
8. What is the maximum throuput in slotted ALOHA protocol ?
9. What is congestion control ?
10. What is http in application layer ?

P.T.O.

PART – B

Answer **any eight** questions, **each** carries **two** marks. **16**

11. What are the advantages of computer network ?

12. Write short notes on microwave Transmission.

13. Explain the different type of Twisted pair wire.

14. What are the two reasons for using layered protocol ?

15. Explain the functions of data link layer.

16. What is meant by Error detection and correction ?

17. What are the different type of Random access protocol ?

18. Write short notes on Ethernet.

19. Explain the functions of bridge.

20. What is congestion control ?

21. Explain the functions of adaptive and non-adaptive routing.

22. Explain remote login function.

PART – C

Answer **any six** questions, **each** carries **four** marks. **24**

23. Why switching mechanism is required and explain the different type of switching mechanisms ?

24. Explain LAN, MAN, WAN and compare these three.

25. Explain the different type of standard organisation used in Data communication.

26. Explain the hamming code correction with an example of four bit data.

27. Explain the different type of framing techniques in DLL.

28. Explain the functions of pure ALOHA and derive the maximum throughput.

29. Write short notes on different type of LAN standard.

30. Compare congestion control and flow control.

31. What is UDP and explain the UDP segment structure ?

PART – D

Answer **any two** questions. **Each** carries **fifteen** marks. **30**

32. Explain the OSI reference model in detail with functions of each layer.

33. Explain the functions of two type of sliding window ARQ with different case.

34. What is TCP and explain the TCP header format in detail ?

35. Explain the Link state routing mechanism in detail.

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