B.Sc DEGREE (CBCS) REGULAR / REAPPEARANCE EXAMINATIONS, JANUARY 2022

Fifth Semester

CORE COURSE - CS5CRT14 - JAVA PROGRAMMING USING LINUX

Common to B.Sc Computer Applications Model III Triple Main, B.Sc Computer Science Model III, B.Sc Information Technology Model III & Bachelor of Computer Application

2017 Admission Onwards

09B592C0

Time: 3 Hours   Max. Marks : 80

Part A

*Answer any **ten** questions.*

*Each question carries **2** marks.*

1. Differentiate between object oriented and procedure oriented programming.

2. Explain the use of continue statement.

3. Define classes and objects.

4. What are constructors?

5. What is the use of protected keyword in java?

6. What is two dimensional array?

7. What is nested try statement ?

8. Why swing component are called lightweight components?

9. Define Window Event Class.

10. Diffrentiate between swing and Jpanel.

11. Distinguish between init() and distroy() methods in applet.

12. How parameters can be passed to applet using tag?

(10×2=20)

Part B

*Answer any **six** questions.*

*Each question carries **5** marks.*

13. Explain the characterset of Java Program.

14. Write a Java program to find the smallest among 3 numbers.

15. Explain method overloading with example.

16. How will you implement hierarchical inheritance in Java?

17. Explain about user defined packages.

18. Write a Java program to demonstrate thread priorities.

19. Develop a simple program to implement KeyEvent class.

20. Write an applet that receives three numeric values as input from the user and display the largest.

21. What are JDBC statements?

(6×5=30)

Part C

*Answer any **two** questions.*

*Each question carries **15** marks.*

22. Illustrate the use of different operators in Java.

23. Diffrentiate final methods ans final classes with examples.

24. a)Differentiate between one-dimensional , two-dimensional arrays with appropriate syntax & examples b)Write a Java program to sort numbers & sort names in 2 different arrays.

25. What is Layout manager? Explain any three layout managers in which method is used to set the layout manager.

(2×15=30)

B.Sc/BCA DEGREE (CBCS) REGULAR / REAPPEARANCE EXAMINATIONS, JANUARY 2022

Fifth Semester

CORE COURSE - CS5CRT12 - COMPUTER NETWORKS

Common for B.Sc Information Technology Model III & Bachelor of Computer Applications

2017 Admission Onwards

1BAFBF0F

Time: 3 Hours   Max. Marks : 80

Part A

*Answer any **ten** questions.*

*Each question carries **2** marks.*

1. What do you mean by periodic signal?

2. Explain shift keying in analog transmission.

3. What are the merits and demerits of radio waves?

4. What is meant by switched network? What are the different types of switching techniques?

5. Which are the different types of addressing in virtual circuit network?

6. Explain the importance of redundant bits in forward error correction.

7. What is a frame?

8. What is Vulnerable time?

9. What is a gateway?

10. Why supernetting is done in class C addresses?

11. What is queuing in UDP?

12. What are the three functional mode in FTP?

(10×2=20)

Part B

*Answer any **six** questions.*

*Each question carries **5** marks.*

13. Write a note about the organization of layer.

14. Which are the transmission models used in data communication.

15. Describe Fibre Optic cable.

16. Explain sender side and receiver side algorithm for stop and wait protocol.

17. Explain the frame format in the bluetooth.

18. Describe about option field in IPV4.

19. Explain about Quality of Services.

20. Explain HTTP.

21. Explain Symmetric cryptography.

(6×5=30)

Part C

*Answer any **two** questions.*

*Each question carries **15** marks.*

22. Write in detail about data communication.

23. What is TDM? Which are the two types of TDM? Explain with diagrams.

24. Explain various generations in Celluler telephony.

25. Explain the IPv6 address space and how it is differ from IPv4 address space?

(2×15=30)

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UNDER GRADUATE (CBCS) REGULAR / REAPPEARANCE EXAMINATIONS, JANUARY 2022

Fifth Semester

(Offered by the Board of Studies in Commerce)

OPEN COURSE - CO5OPT03 - FUNDAMENTALS OF ACCOUNTING

2017 Admission Onwards

EE5530F9

Time: 3 Hours   Max. Marks : 80

Part A

*Answer any **ten** questions.*

*Each question carries **2** marks.*

1. Explain contingent asset with an example.

2. What is journalising?

3. Narrate the rules of debit and credit as per modern approach.

4. What are intangible assets? Give example.

5. What is trade discount?

6. Explain Balancing of account.

7. Explain debit note and credit note.

8. Agreement of a trial balance is not a conclusive proof of the accuracy of accounts. Comment.

9. What is a Balance Sheet? What is the need of preparing it?

10. What is a closing entry? Give two examples.

11. What is gross profit?

12. What do you mean by grouping and marshalling of assets and liabilities?

(10×2=20)

Part B

*Answer any **six** questions.*

*Each question carries **5** marks.*

13. Who are the users of accounting information?

14. Distinguish between Book Keeping and Accounting.

15. What are the advantages of Double Entry System of Accounting?

16. Show the opening entry from the following particulars

	Rs.
Cash in hand	5000
Cash at Bank	10000
Machinery	6000
Stock	7000
Sundry Debtors	10000
Sundry Creditors	5000
Bills Receivable	3000
Bills Payable	1000
Loan (Cr)	2000

17. Pass necessary Journal Entries

Date	Transactions	Amount (Rs.)
2019		
Jan 1	Started business with	50,000
2	Purchased furniture	15,000
3	Purchased goods for cash	9,000
5	Open bank account	8,000
7	Purchased goods for cash	7,000
8	Sold goods for cash	12,000
12	Withdrew cash for personal purpose	3,000
16.	Purchased goods from Roy	9,000
18.	Sold goods to James	15,000
20.	Cash received from James	12,000
21.	Cash paid to Roy	6,000
24.	Paid salary	2,000

18. State the disadvantages of Journal?

19. Give ledger accounts of Mr.Raj in respect of the transactions given below:

2019
March 1   Started business with Rs.50,000
        3   Purchased goods for Rs.12,000
        4   Purchased goods on credit from Gomas   Rs.8,000
        8   Sold goods to Arun Rs.6,000
        12   Paid to Gomas Rs.5,000
        15   Received from Arun Rs.4,000
        18   Sold goods for Rs.9,000

20. Prepare a Trial Balance from the following

Particulars	Amount (Rs)
Capital	40500
Purchases	45000
Purchase Return	3000
Sales	72000
Sales Return	2000
Opening stock	15000
Cash in Hand	2200
Salaries	3050
Rent	1250
Commission Received	1000
Wages	2000
Creditors	6000
Debtors	9000
Machinery	3000
Furniture	10000
Land & Building	30000

21. Distinguish between Trading and Profit & Loss Account. Give a specimen of Profit and Loss Account.

(6×5=30)

Part C

*Answer any **two** questions.*

*Each question carries **15** marks.*

22. Explain in detail the various accounting concepts and conventions.

23. Explain the various subsidiary books maintained by a firm. Also explain the advantages of subdivision of journal.

24. From the following transactions, prepare a triple column cash book

May
2019

  1   Balance of cash in hand Rs.4000

       Bank balance Rs.10000

  2   Purchased goods and gave cheque Rs.3600

  5   Sold goods for cash Rs.2800

  5   Remitted to bank Rs.3000

5   Received cheque from Prabhu for Rs.6700 and discount allowed to him Rs.120

6   Prabhu's cheque sent to bank for collection

7   Cheque issued to Murali for Rs.5200 and discount allowed by him Rs.200

9   Paid rent by cheque Rs.300

10   Paid to Haridas Rs.3150 and received a discount Rs.150

15   Interest on deposit credited by bank Rs.220

18   Bank charges debited Rs.25

20   Withdrew from bank for office use Rs.2000

22   Thomas, one of our customers remitted to bank directly Rs.7000

25. Following balances are extracted from the books of Kautilya & Co. on 31st March 2019. You are required to make final accounts as on that date.

Opening stock Rs. 500

Bills reveivable Rs. 2250

Purchases Rs. 19500

Wages Rs. 1400

Insurance Rs. 550

Sundry debtors Rs. 15000

Carriage inward Rs. 400

Commission (Dr.) Rs. 400

Interest on capital Rs. 350

Stationery Rs. 225

Returns inward Rs. 650

Commission (Cr.) Rs. 200

Returns outward Rs. 250

Trade expenses Rs. 100

Office fixtures Rs. 500

Cash in hand Rs. 250

Cash at bank Rs. 2375

Rent & taxes Rs. 550

Carriage outward Rs. 725

Sales Rs. 25000

Bills payable Rs. 1500

Creditors Rs. 9825

Capital Rs. 8950

The closing stock was valued at Rs. 12500

(2×15=30)

B.Sc DEGREE (CBCS) REGULAR / REAPPEARANCE EXAMINATIONS, JANUARY 2022

Fifth Semester

CORE COURSE - CS5CRT13 - IT AND ENVIRONMENT

Common to B.Sc Computer Science Model III, B.Sc Information Technology Model III & Bachelor of Computer Applications

2017 Admission Onwards

C1263859

Time: 3 Hours

Max. Marks : 80

Part A

*Answer any **ten** questions.*

*Each question carries **2** marks.*

1. What do you understand by the term edutainment?

2. Define environmental studies.

3. Expand NICNET.

4. Define Digital Divide.

5. What is software piracy?

6. What is impact of IT?

7. Name the harmful substances from E-Waste.

8. What is Green Computing?

9. What is NAPCC?

10. What is peace in HR?

11. What is HR in united nations?

12. What are the rights of prisoners?

Part B

*Answer any **six** questions.*

*Each question carries **5** marks.*

13. What do you understand by the term cyber presence?

14. What do you understand by the term sustainable development?

15. Have teachers and students both gained considerable benefits by utilizing E-learning tools?

16. Explain cyber crime.

17. Give health issues for the usage of computer.

18. How air is polluted by E-Waste?

19. Explain the waste recycling technologies.

20. Explain UDHR.

21. Explain CEDAW.

(6×5=30)

Part C

*Answer any **two** questions.*

*Each question carries **15** marks.*

22. Explain different LMS with features.

23. Explain about cyber law.

24. Explain the various recyclable E-Waste and its positive effects on the nature.

25. Explain directive principles of state policy and HR.

(2×15=30)