

C-4999

Sub. Code

80513

B.Sc. DEGREE EXAMINATION, NOVEMBER 2021

First Semester

(IT) and Logistics

PROGRAMMING IN C

(2019 onwards)

Duration : 3 Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all** questions.

1. Differentiate constant and variable.
2. Write down the assignment operator in C.
3. What is the use of switch statement?
4. Write down the syntax of go to statement in C.
5. How will you define a function in C?
6. What is the default storage class in C?
7. Define array.
8. Write down the function to copy one string to other.
9. What is a structure?
10. Write down the purpose of pointers.

Part B

(5 × 5 = 25)

Answer **all** questions, choosing either (a) or (b).

11. (a) Explain about C character set.

Or

- (b) List and explain the Relational and logical operators in C.

12. (a) Write about control structures and flow of control.

Or

- (b) Differentiate while loop and do..while loop with a sample code.

13. (a) What is a function? How will you define it?

Or

- (b) Discuss about various storage classes in C.

14. (a) How will you declare Multidimensional array? Explain with syntax and example.

Or

- (b) Discuss about string handling functions in C.

15. (a) How will you declare structures? Explain with syntax and example.

Or

- (b) Write down the functions to open a file for writing, reading and appending.

Part C

(3 × 10 = 30)

Answer **all** questions, choosing either (a) or (b).

16. (a) Explain operator precedence and associativity in C.

Or

- (b) Discuss about data input and output functions.

17. (a) Write a C program using switch statement.

Or

- (b) Write a C program to generate Fibonacci series.

18. (a) Write a C program using single dimensional arrays to arrange n numbers in ascending order.

Or

- (b) Describe the various operations on pointers.

C-5000

Sub. Code

80514

B.Sc. DEGREE EXAMINATION, NOVEMBER 2021

First Semester

IT and Logistics

MATHEMATICS – I

(2019 onwards)

Duration : 3 Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all** questions.

1. Find $\sin 6\theta$.
2. If $\tan \theta = -4/3$, then find $\sin \theta$.
3. Define universal set with an example.
4. Define equivalence relations.
5. Define skew symmetric matrix.
6. Define transpose of a matrix.
7. State fundamental theorem of Algebra.
8. Define symmetric functions of roots.
9. If $x = \sin t$ $y = \sin t$ find $\frac{dy}{dx}$.
10. Define relative maximum of a function of two variables.

Part B

(5 × 5 = 25)

Answer **all** questions, choosing either (a) or (b).

11. (a) Prove that

$$\sin^6 \theta = \frac{-1}{32} [\cos 6\theta - 6 \cos 4\theta + 15 \cos 2\theta - 10].$$

Or

- (b) If α and β are the solutions of the equation $a \tan \theta + b \sec \theta = c$, then show that

$$(\alpha + \beta) = \frac{2ac}{a^2 - c^2}.$$

12. (a) Show that any subset of a partially ordered set is partially ordered set.

Or

- (b) Let \sim be an equivalence relation on a set X then prove that every equivalence class is non-empty, and the union of equivalence class of \sim .

13. (a) If $A = \begin{bmatrix} -2 \\ 4 \\ 5 \end{bmatrix}$, $B = [1 \ 3 \ -6]$, verify that $(AB)' = B'A'$.

Or

- (b) Prove that if A is a square matrix of order n then $A + A^T$ is symmetric.

14. (a) Solve $x^4 + x^3 - 16x^2 - 4x + 48 = 0$, given that the product of two of the roots is 6.

Or

- (b) Show that $x^5 - 5x^3 + 5x^2 - 1 = 0$ has three equal roots and find this root.

15. (a) Find $\frac{dy}{dx}$ if $u = \sin(x^2 + y^2)$ where $a^2x^2 + b^2y^2 = c^2$.

Or

- (b) Find the n^{th} derivative of $\log(ax + b)$.

Part C

(3 × 10 = 30)

Answer **all** questions, choosing either (a) or (b).

16. (a) Prove that

$$\frac{\cos 9\theta}{\cos \theta} = 256 \cos^8 \theta - 576 \cos^6 \theta + 432 \cos^4 \theta - 120 \cos^2 \theta + 9.$$

Or

- (b) Prove that when $x = 2 \cos \theta$,

$$2(1 + \cos 8\theta) = (x^4 - 4x^3 + 2)^2.$$

17. (a) Show that

$${}^{1/3} \begin{bmatrix} -1 & 2 & 2 \\ 2 & -1 & 2 \\ 2 & 2 & -1 \end{bmatrix} \text{ is orthogonal.}$$

Or

- (b) Verify the Cayley-Hamilton theorem for the matrix

$$A = \begin{bmatrix} 1 & 3 & 7 \\ 4 & 2 & 3 \\ 1 & 2 & 1 \end{bmatrix}.$$

18. (a) Find the maximum values of

$$2(x^2 - y^2) - x^4 + y^4.$$

Or

(b) Solve $x^3 - 12x^2 + 39x - 28 = 0$ whose roots are in Arithmetic progression.

C-2106

Sub. Code

80523

B.Sc. DEGREE EXAMINATION, NOVEMBER 2021

Second Semester

IT and Logistics

OBJECT ORIENTED PROGRAMMING IN C++

(2019 onwards)

Duration : 3 Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all** questions.

1. What is object oriented programming?
2. List the benefits of OOP.
3. What is an object?
4. State the need for access specifiers.
5. What is the purpose of constructors?
6. What do you mean by type conversions?
7. Define Inheritance.
8. What is a virtual base class?
9. Define streams.
10. What are exceptions?

Part B

(5 × 5 = 25)

Answer **all** questions.

11. (a) Write a note on Identifiers and constants.

Or

- (b) Discuss about operators in C++.

12. (a) Describe the general structure of class.

Or

- (b) Write a note on static data members.

13. (a) Explain about overloading constructors.

Or

- (b) State the purpose of command line arguments.
Explain with examples.

14. (a) What are the modes in which classes are inherited?
Discuss.

Or

- (b) Discuss about pure virtual functions.

15. (a) Write a note on stream classes.

Or

- (b) Write a note on manipulators.

Part C

(3 × 10 = 30)

Answer **all** questions.

16. (a) Describe the data types used in C++.

Or

(b) Explain about functions.

17. (a) Discuss in detail about function overloading.

Or

(b) Discuss about arrays.

18. (a) Explain about any two inheritances.

Or

(b) How to handle exceptions in C++? Discuss.

C-2107

Sub. Code

80524

B.Sc. DEGREE EXAMINATION, NOVEMBER 2021

Second Semester

IT and Logistics

MATHEMATICS — II

(2019 onwards)

Duration : 3 Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all** questions.

1. If $y = e^{5x}$ find y_n .
2. Define minimum value of a function.
3. Prove that $\int_0^a f(x) dx = \int_0^a f(x-a) dx$.
4. Define reduction formula for $\int x^n e^{ax} dx$.
5. Solve : $(D^2 + 2D - 24)y = 0$.
6. Solve : $\frac{d^2y}{dx^2} - a^2y = 0$.
7. Eliminate the arbitrary function from $f(x^2 + y^2)$.

8. Form the P.D.E. by eliminating arbitrary functions from
 $z = f\left(\frac{y}{x}\right)$.
9. What is mean by Fourier series?
10. Expand $f(x) = e^x$ in a series of cosines.

Part B $(5 \times 5 = 25)$ Answer **all** questions.

11. (a) Find n^{th} derivative of $x^2 \cos 3x$.

Or

- (b) Find y_n when $y = \frac{x^2}{(x-1)^2(x+2)}$.

12. (a) Show that $\int_0^1 x(1-x)^{10} dx = \frac{1}{132}$.

Or

- (b) Evaluate $\int_0^{\pi/2} \sin^9 x dx$.

13. (a) Solve : $x^2 D^2 y + 5x Dy + 4y = 0$.

Or

- (b) Solve : $(D^2 + D + 1)y = x^2$.

14. (a) Solve : $pq + p + q = 0$.

Or

(b) Form the P.D.E to the family of spheres

$$(x - p)^2 + (y - q)^2 + z^2 = 1 \quad (p, q \text{ are parameters})$$

15. (a) Explain briefly about even and odd functions with suitable example.

Or

(b) Show that $x^2 = \frac{\pi^2}{3} + 4 \sum_{n=1}^{\infty} \frac{(-1)^n \cos nx}{n^2}$ in the interval $-\pi < x < \pi$.

Part C

(3 × 10 = 30)

Answer **all** questions.

16. (a) Find the maxima and minima for the function $4x^2 + 6xy + 9y^2 - 8x - 24y + 4$.

Or

(b) Evaluate $\int_0^{\frac{\pi}{2}} \log \sin x dx$.

17. (a) Solve $(D^2 + 4)y = x \sin x$.

Or

(b) Solve $x^2 \frac{d^2 y}{dx^2} - 3x \frac{dy}{dx} + 4y = x^2$.

18. (a) Solve : $z = px + qy - 2\sqrt{pq}$.

Or

(b) Obtain Fourier series for $f(x) = |\sin x|$ for $-\pi < x < \pi$.

C-5001

Sub. Code

80532

**B.Sc. (IT & LOGISTICS) DEGREE EXAMINATION,
NOVEMBER 2021**

Third Semester

PRINCIPLES OF INFORMATION TECHNOLOGY

(2019 onwards)

Duration : 3 Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **ALL** questions.

1. What are called analog computers?
2. What do you mean by computer communication?
3. List down the various types of application software.
4. What are called specialised software?
5. Mention any four online information services.
6. What are the factors affecting Data transmission?
7. What is Decompression?
8. Define Database.
9. What do you mean by system analysis?
10. Write about Internet programming.

Part B

(5 × 5 = 25)

Answer choosing either (a) or (b) in each question.

11. (a) Discuss the revolution in computers and communication.

Or

- (b) List and explain the ethics of Information technology.

12. (a) Describe the features of spreadsheets.

Or

- (b) Write about internet web browsers.

13. (a) Explain about video conferencing service.

Or

- (b) Discuss about Electronic Data Interchange.

14. (a) What are called secondary storage devices? List and explain.

Or

- (b) Explain the features of DBMS.

15. (a) Write short notes on MIS.

Or

- (b) Write about generations of programming languages.

Part C

(3 × 10 = 30)

Answer choosing either (a) or (b) in each question.

16. (a) Discuss the developments in communications technology.

Or

- (b) Describe the salient features of Word processing software.

17. (a) Discuss about shared resources.

Or

- (b) What is a modem? How it is used in computer communication?

18. (a) Describe the various types of Database organization.

Or

- (b) Explain the six phases of system analysis and design.

C-5002

Sub. Code

80533

B.Sc. DEGREE EXAMINATION, NOVEMBER 2021

Third Semester

I.T. and Logistics

PROGRAMMING IN JAVA

(2019 onwards)

Duration : 3 Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all** the questions.

1. What is the use of this keyword?
2. List down the keywords available in Java.
3. What are the characteristics of a Java object?
4. What is the use of last Index of () method?
5. Define the term: finally
6. What is the meaning of the synchronized keyword?
7. What are the advantages of applet?
8. What is the purpose of Calendar class?
9. Differentiate between component and container.
10. Differentiate between setText and getText methods.

Part B

(5 × 5 = 25)

Answer **all** the questions choosing either (a) or (b).

11. (a) Write in detail about else if ladder statements.

Or

- (b) Explain single dimensional array in Java.

12. (a) Discuss on super keyword with an example.

Or

- (b) Write a Java program to calculate area of a circle using class and objects. (formula $3.14*r*r$)

13. (a) Describe the term interface in Java.

Or

- (b) Explain the methods in exception handling.

14. (a) Explain any five string buffer functions with an example program.

Or

- (b) What is the use of scanner class? Explain with an example.

15. (a) Discuss about button and textfield controls.

Or

- (b) Explain how to create AWT list control.

Part C

(3 × 10 = 30)

Answer all **the** questions.

16. (a) Write a Java program for matrix multiplication.

Or

(b) Compare method overloading and method overriding with suitable examples.

17. (a) Define the following methods:

(i) concat()

(ii) replace()

(iii) equals()

(iv) length()

(v) toUpperCase()

(vi) toLowerCase()

Or

(b) Discuss about thread priorities in Java

18. (a) Write in detail about File I/O streams in Java.

Or

(b) How to create menu control in Java? Explain.

C-5003

Sub. Code

80535

B.Sc. DEGREE EXAMINATION, NOVEMBER 2021

Third Semester

IT and Logistics

STATISTICAL AND NUMERICAL METHODS

(2019 onwards)

Duration : 3 Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all** questions.

1. Define Geometric mean.
2. Define standard deviation.
3. Write the formula for Spearman's rank correlation co-efficient.
4. Define regression line.
5. Define critical region.
6. State sample error.
7. Write the condition for the convergence of the iteration method.
8. Write the types of direct method.
9. State Simpson's rule.
10. Write the auxiliary equation for Runge-Kutta fourth order method.

Part B

(5 × 5 = 25)

Answer **all** questions, by choosing either (a) or (b).

11. (a) Find the mean deviation about the mean for the following data: 6,7,10,12,13,4,8,12.

Or

- (b) Find SD for 20,22,27,30,40,48,45,32,31,35

12. (a) Find the correlation coefficient for the following data:

x : 51 63 63 49 50 60 65 63 46 50

y : 49 72 75 50 48 60 70 48 60 56

Or

- (b) Calculate the Spearman's ranks correlation coefficient for the following data and interpret the result

x : 35 54 80 95 73 73 35 91 83 81

y : 40 60 75 90 70 75 38 95 75 70

13. (a) A coin is tossed 144 times and a person get 30 heads. Can we say that the coin is unbiased.

Or

- (b) Explain about the errors occur in testing of hypothesis.

14. (a) Find the positive root of $x = \cos x$ by bisection method.

Or

- (b) Find the Newton's method, the real root of the equation $3x = \cos x + 1$, correct to four decimal places.

15. (a) Use Simpson's $\frac{1}{3}^{rd}$ rule to find $\int_0^{0.6} e^{-x^2} dx$ by taking seven ordinates.

Or

- (b) Evaluate $\int_0^6 \frac{dx}{1+x^2}$ by using Trapezoidal rule $h=1$.

Part C

(3 × 10 = 30)

Answer **all** questions.

16. (a) Find the rank correlation coefficient for
- | | | | | | | |
|--------|-----|-----|------|-----|------|-----|
| Height | 165 | 167 | 166 | 170 | 169 | 172 |
| Weight | 61 | 60 | 63.5 | 63 | 61.5 | 64 |

Or

- (b) Find G.M. and H.M. of the following data:

x	1	2	3	4	5
f	2	4	3	2	1

17. (a) A die is thrown 132 times with following results
- | | | | | | | |
|--------------------|----|----|----|----|----|----|
| Number turned up : | 1 | 2 | 3 | 4 | 5 | 6 |
| Frequency : | 16 | 20 | 25 | 14 | 29 | 28 |
- Is the die unbiased?

Or

- (b) Solve by Gauss seidal method.

$$20x + y - 2z = 17$$

$$3x + 20y - z = -18$$

$$2x - 3y + 20z = 25$$

18. (a) Apply R-K method to find approximate value of y for $x = 0.2$, in steps of 0.1, if $\frac{dy}{dx} = x^2 + y^2$, given that $y = 1$, where $x = 0$.

Or

- (b) Find the value of y for $x = 0.1$ by Picard's method given that $\frac{dy}{dx} = \frac{y-x}{y+x}$, $y(0) = 1$.

C-5004

Sub. Code

80537

B.Sc. DEGREE EXAMINATION, NOVEMBER 2021.

Third Semester

IT and Logistics

CONSTITUTION OF INDIA

(2019 Onwards)

Duration : 3 Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all** questions.

1. Constituent assembly
2. Dr. B.R Ambedkar
3. Kitchen cabinet
4. Electoral college
5. Audit suffrage
6. Budget session
7. Amendment
8. Ad hoc judges
9. Sarkaria commission
10. Governor's Rule.

Part B

(5 × 5 = 25)

Answer **all** questions.

Answer **all** questions, choosing either (a) or (b)

11. (a) How did making our Indian constitutions.

Or

- (b) What do you know about the directive principles of state policy?

12. (a) Write a note on council of ministers?

Or

- (b) Explain the powers vice- president of India?

13. (a) Discuss the functions of Rajya Sabha?

Or

- (b) Explain the power of loksha?

14. (a) Explain the special status given to Jammu and Kashmir.

Or

- (b) Define Rule of Law?

15. (a) State how the chief justice and other judges of the high court are appointed?

Or

- (b) Write a note on the governor of state?

Part C

(3 × 10 = 30)

Answer **all** questions, choosing either (a) or (b)

16. (a) Bring out the salient features of the Indian constitution.

Or

- (b) Explain the power and functions of prime minister.

17. (a) Explain the powers of the parliament?

Or

- (b) Write an essay on the executive powers of the chief minister of state.

18. (a) Describe the power and functions of a supreme court?

Or

- (b) Deeply Explain the judiciary systems in India.
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C-5005

Sub. Code

80542

B.Sc. DEGREE EXAMINATION, NOVEMBER 2021

Fourth Semester

Information Technology and Logistics

COMPUTER NETWORKS

(2019 onwards)

Duration : 3 Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all** questions.

1. Define the term Network.
2. What is the fifth layer in OSI reference model?
3. What is meant by simplex communication?
4. What is the job of stop-and-wait protocol?
5. What do you mean by flooding?
6. List out the names of any two congestion control algorithms.
7. Mention the various categories of addressing.
8. List out the security techniques in transport layer.
9. What is name server?
10. Expand the terms JPEG and MPEG.

Part B

(5 × 5 = 25)

Answer **all** questions.

11. (a) Write short notes on twisted pair cable.

Or

- (b) Discuss the advantages of ATM.

12. (a) Explain Error detecting codes.

Or

- (b) What are called collision free protocols? Explain.

13. (a) Write short notes on Tunneling.

Or

- (b) Discuss on Internet control protocols.

14. (a) Explain the steps involved in establishing a connection in transport layer.

Or

- (b) What is Crash Recovery? Explain.

15. (a) Explain the features of Electronic Mail.

Or

- (b) Discuss on various Data compression techniques.

Part C

(3 × 10 = 30)

Answer **all** questions.

16. (a) Describe the OSI Reference model with neat sketch.

Or

- (b) Explain about guided transmission media.

17. (a) Write detailed notes on sliding window protocols.

Or

(b) Explain in detail about the following routing algorithms:

(i) Distance vector routing.

(ii) Routing for mobile hosts.

18. (a) Explain the elements of Transport protocols.

Or

(b) Describe a public key algorithm.

C-5006

Sub. Code

80543

B.Sc. DEGREE EXAMINATION, NOVEMBER 2021

Fourth Semester

Information Technology and Logistics

WEB TECHNOLOGIES

(2019 onwards)

Duration : 3 Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all** questions.

1. Expand the term URL.
2. What is the use of PRE tag in HTML?
3. How to apply style rule to an element? Give an example.
4. List the advantages of stylesheet.
5. List down the padding properties in CSS.
6. Define color codes in CSS.
7. Why Javascript is platform independent?
8. What is type casting?
9. List the methods provided by Date object.
10. Write down the syntax of user defined object.

Part B

(5 × 5 = 25)

Answer **all** questions.

11. (a) How to build an Hyperlink with an Anchor Tag in HTML? Discuss.

Or

- (b) Compare ROWSPAN and COLSPAN in HTML table with suitable examples.

12. (a) How to import stylesheet in an HTML page? Explain.

Or

- (b) Write short notes on CSS Selectors.

13. (a) Discuss in detail about margin properties of HTML element.

Or

- (b) Write in detail about border property of a stylesheet.

14. (a) Write short notes on conditional checking statement.

Or

- (b) Discuss on array implementation in Javascript.

15. (a) Illustrate the use of Element array in Javascript.

Or

- (b) Explain briefly about Javascript event handlers.

Part C

(3 × 10 = 30)

Answer **all** questions.

16. (a) Discuss any three input elements in HTML Forms.

Or

- (b) Explain external stylesheet with suitable example.

17. (a) Discuss prompt dialog box with an example program.

Or

- (b) Write a Javascript program to check the given number is prime number or not.

18. (a) Explain the procedure of setting a cookie in Javascript.

Or

- (b) Write a Javascript program to display the properties of browser using navigator object.

C-5007

Sub. Code

80544

B.Sc. DEGREE EXAMINATION, NOVEMBER 2021

Fourth Semester

Information Technology and Logistics

DATABASE MANAGEMENT SYSTEM

(2019 onwards)

Duration : 3 Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all** questions.

1. What is database management system?
2. What is meant by relationship? Give examples.
3. Define the terms DDL and DML.
4. Give the advantages of embedded sql.
5. Draw the storage device hierarchy according to their speed and cost.
6. What is data dictionary?
7. What is meant by hashing?
8. List out the statements associated with a database transaction.
9. Define the terms client and server.
10. What is heterogeneous database?

Part B

(5 × 5 = 25)

Answer **all** questions choosing either (a) or (b).

11. (a) Write short notes on ER schema.

Or

- (b) What is UML? Explain briefly.

12. (a) Briefly explain the structure of SQL.

Or

- (b) How does BCNF differ from 3NF?

13. (a) Give a brief account on nested relation.

Or

- (b) Compare functions and procedures through examples.

14. (a) Distinguish between static and dynamic hashing.

Or

- (b) Give a brief account on query processing.

15. (a) Discuss on centralized database architecture.

Or

- (b) Brief on distributed database.

Part C

(3 × 10 = 30)

Answer **all** questions choosing either (a) or (b).

16. (a) Discuss the concepts of ER model with necessary diagrams.

Or

- (b) Explain tuple relational calculus with examples.

17. (a) What are normal forms? Explain with examples.

Or

(b) What is data integrity? Explain the types of integrity constraints.

18. (a) Discuss on file organization.

Or

(b) Explain the concept of serializability.

C-5008

Sub. Code

80551

B.Sc. DEGREE EXAMINATION, NOVEMBER 2021

Fifth Semester

IT and Logistics

FUNDAMENTALS OF LOGISTICS

(2019 onwards)

Duration : 3 Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all** questions.

1. Define Logistics.
2. Define customer service.
3. Define Inventory.
4. What is Inventory Plan Model?
5. Write a note on Modes of Transportation.
6. What is Material Handling?
7. Define Logistics Information System.
8. Define Global Supply Chain.
9. Define ABC Costing.
10. Write a note on Global Logistics.

Part B

(5 × 5 = 25)

Answer all the questions choosing either (a) or (b).

11. (a) Explain the Roles of logistics.

Or

- (b) What are the Phases in Customer Service?

12. (a) What are the Elements of Customer Service?

Or

- (b) Write a short note on Function of Logistics.

13. (a) What are the Needs for Inventory and its Control?

Or

- (b) Explain the types of Inventory.

14. (a) What are the types of Selective Inventory Control?

Or

- (b) Explain the Types of Material Handling Equipment.

15. (a) What are the Difference between centralized and Decentralized Structure in Logistics Performance?

Or

- (b) What are the Financial Issues in Logistics Performance?

Part C

(3 × 10 = 30)

Answer all the questions choosing either (a) or (b).

16. (a) Explain the Importance of Inventory management in supply chain.

Or

- (b) What is the Documents Used in Transportation?

17. (a) What are the Function and Benefits of Warehouse operation?

Or

(b) Explain the Factors initiating Warehouse Operation.

18. (a) Write a short note on Packing and Designing of packing materials.

Or

(b) What are the factors affecting choice of packing material?

C-5009

Sub. Code

80552

B.Sc. DEGREE EXAMINATION, NOVEMBER 2021

Fifth Semester

IT and Logistics

INTRODUCTION TO SHIPPING

(2019 onwards)

Duration : 3 Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all** questions.

1. What is shipping?
2. Define supply of shipping.
3. Define cargo.
4. Give a note on load lines.
5. Define tanker.
6. Give a note on container.
7. Define shipping business.
8. Give a note on ship broker.
9. Define authority.
10. Define TORT

Part B

(5 × 5 = 25)

Answer **all** the questions choosing either (a) or (b).

11. (a) What are the Reasons for Sea Transport?

Or

- (b) Describe the Fundamentals of English Law.

12. (a) Explain the Containerization.

Or

- (b) Describe the Breach Of Warranty of Authority.

13. (a) Explain Company accounts Law of Carriage.

Or

- (b) Explain The Institute of Chartered of ship Brokers.

14. (a) Discuss Maritime Geography.

Or

- (b) Explain the Ship Management.

15. (a) Explain the Negotiating Charter.

Or

- (b) Explain the Geography of Trade.

Part C

(3 × 10 = 30)

Answer **all** the questions choosing either (a) or (b).

16. (a) Explain the terms and conditions of Bill of Lading.

Or

- (b) Write a short note on History of Liners.

17. (a) Explain Protection and Indemnity Associations.

Or

(b) Write a detailed note on TORT.

18. (a) Explain the Contacts Relating to the carriage of goods by sea.

Or

(b) Discuss the Tankers and the Tanker Market.

C-5010

Sub. Code

80553

B.Sc. DEGREE EXAMINATION, NOVEMBER 2021

Fifth Semester

IT and Logistics

CUSTOMS PROCEDURE

(2019 onwards)

Duration : 3 Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all** questions.

1. What is settlement commission under custom Act?
2. What is the quantum of pre-deposit?
3. Define Central Excise.
4. Define Custom duties.
5. Define Export Promotion scheme
6. Write a note on DGDRI.
7. What is special economic zone scheme?
8. What is duty drawback scheme?
9. What do you mean by warehouse licensing?
10. Define warehouse bond.

Part B

(5 × 5 = 25)

Answer **all** the questions, choosing either (a) or (b).

11. (a) Explain Exportation Of Goods.

Or

- (b) Describe Levy of an exemption from custom duties.

12. (a) Explain Prevention of illegal import of Goods.

Or

- (b) Discuss Claim of Refund of Duty.

13. (a) Write briefly about Aircraft in India.

Or

- (b) Explain Clearance of goods for Exportation.

14. (a) Describe drawback prohibition.

Or

- (b) Explain Warehousing in detail.

15. (a) Discuss Tran shipment of certain goods without payment.

Or

- (b) Explain Regulation of drawback.

Part C

(3 × 10 = 30)

Answer **all** the questions choosing either (a) or (b).

16. (a) Explain Customs-Classes-Appointments-Powers.

Or

- (b) Describe Delivery of export manifest.

17. (a) Explain the powers of central government notify goods.

Or

(b) Explain the detection of illegal imports of goods.

18. (a) Explain the provision relating to clearance of goods for home consumption.

Or

(b) Explain the powers to board conveyances.

C-5011

Sub. Code

80554

B.Sc. DEGREE EXAMINATION, NOVEMBER 2021

Fifth Semester

IT and Logistics

WAREHOUSING AND INVENTORY MANAGEMENT

(2019 onwards)

Duration : 3 Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all** questions.

1. What is meant by warehousing?
2. Define warehouse management.
3. What is meant by inventory management?
4. Define WIP inventory.
5. Give a note on inventory management system.
6. What are the needs to hold inventories?
7. What is ABC Inventory analysis?
8. Write a note on managing inventory by using ABC.
9. Define material handling system.
10. Write a short note on RFID technology.

Part B

(5 × 5 = 25)

Answer **all** questions, choosing either (a) or (b).

11. (a) What are the various types of warehouses?

Or

- (b) What are the different facilities in warehousing?

12. (a) Write a short note on role in supply chain of inventory management.

Or

- (b) Write a note on information about Palletized storage systems.

13. (a) What are the necessities of WMS?

Or

- (b) Explain distribution of resource planning in WMS.

14. (a) Explain the multi-echelon inventory system.

Or

- (b) What is ABC inventory control?

15. (a) What are the types of material handling system?

Or

- (b) What is automated stores and explain its benefits?

Part C

(3 × 10 = 30)

Answer **all** questions.

16. (a) Write a detailed note on needs and issues of warehousing.

Or

- (b) What are the roles and functions of inventory management?

17. (a) Differentiate WIP inventory, finished goods, MRO inventories.

Or

(b) Differentiate independent demand system and dependent demand system in WMS.

18. (a) Write the importance of JIT in detail.

Or

(b) What are the various types of material handling equipments?

C-5012

Sub. Code

80555

B.Sc. DEGREE EXAMINATION, NOVEMBER 2021.

Fifth Semester

IT and Logistics

**TRANSPORTATION AND DISTRIBUTION
MANAGEMENT**

(2019 onwards)

Duration : 3 Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all** questions.

1. Define Transportation.
2. Define Transport.
3. What is meant by distribution channel?
4. Give a note on supply chain.
5. What is distribution network?
6. What is transportation cost?
7. Define Transit Operation Software.
8. What is meant by Fleet management system?
9. Define transport network design.
10. Define goods in transit.

Part B

(5 × 5 = 25)

Answer **all** questions.

11. (a) Write a short note on Distribution channel.

Or

- (b) Describe the role of distribution channel.

12. (a) What are the factors influencing Distribution network?

Or

- (b) What are the various techniques used in distribution network channel?

13. (a) Describe Transportation cost — Transportation performance — Transportation value measures.

Or

- (b) What are the driving factors of transportation cost?

14. (a) Describe the role of transportation in supply chain.

Or

- (b) What are the characteristics of Transportation modes?

15. (a) What are the benefits of transportation software?

Or

- (b) Explain the role of technology in transportation.

Part C

(3 × 10 = 30)

Answer **all** questions.

16. (a) Explain the designing distribution channels.

Or

- (b) Write a detailed note on Principles and Participants in Transportation.

17. (a) Explain in detailed note on Selection procedure of transportation mode.

Or

- (b) Write a detailed note on Advanced Fleet Management System.

18. (a) What is the role of Distribution in Supply chain?

Or

- (b) Explain in detail : Inter-modal freight technology.

C-5013

Sub. Code

80556

B.Sc. DEGREE EXAMINATION, NOVEMBER 2021

Fifth Semester

IT and Logistics

LINER TRADE

(2019 – Onwards)

Duration : 3 Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all** questions.

1. Define Liner trade.
2. Define Tramp trade.
3. Define paperless trade.
4. What is ship management?
5. Write the establishment year of UK bill of lading act.
6. What is bill of lading?
7. Define unitization.
8. Define Merchant.
9. Define ICDS.
10. Define cargo.

Part B

(5 × 5 = 25)

Answer **all** questions, choosing either (a) or (b).

11. (a) Write a short note on:

- (i) Vessel loading;
- (ii) Vessel discharging.

Or

(b) What are the different types of containership?

12. (a) Write briefly on Port and Terminal management.

Or

(b) Write the roles of ship-officers.

13. (a) What is the basic layout of ship?

Or

(b) What are the steps involving in determining the demand for the containers?

14. (a) What are the various types of Containers?

Or

(b) What are the documents used in Bill of lading?

15. (a) What are the legal aspects in bill of lading?

Or

(b) What are the various equipments in lifting the cargoes?

Part C

(3 × 10 = 30)

Answer **all** questions, choosing either (a) or (b).

16. (a) Explain the Methods of payments In International Trade.

Or

- (b) Write a detailed note on “Uses of Bill of Lading in Liner Trade”.

17. (a) Explain the high lights of UK Bill of lading Act,1855.

Or

- (b) Write a detailed note on “Shipboard handling equipments”.

18. (a) Write a short note on International Contract of sales and INCO terms.

Or

- (b) What are Legal and Insurance implications in the container trade?
