

NEERAJ®

E-COMMERCE

BCOS-184

Chapter Wise Reference Book Including Many Solved Sample Papers

Based on

C.B.C.S. (Choice Based Credit System) Syllabus of

& Various Central, State & Other Open Universities

ву: Kshyama Sagar Meher



(Publishers of Educational Books)

Website: www.neerajbooks.com

MRP ₹ 280/-

<u>Content</u>

E-COMMERCE

Question Paper–Ju	ne-2024 (Solved)	1-3				
Question Paper–De	ecember-2023 (Solved)	1-2				
Question Paper–Ju	ine-2023 (Solved)	1-2				
Question Paper–De	1-2					
Question Paper–Ex	1-3					
Sample Question F	Sample Question Paper–1 (Solved)					
Sample Question F	Sample Question Paper–2 (Solved)					
S.No.	Chapterwise Reference Book	Page				
BLOCK-I: BAS	ICS OF E-COMMERCE					
1. Introducti	on to E-Commerce	1				
2. E-Comme	erce Business Models	11				
3 Technolog	gy Used in E-Commerce	22				
5. Technolog	gy Osed III E-Commerce					
4. Electronic	Governance	36				
BLOCK-II : E-F	PAYMENT SYSTEMS					
5. E-Payme	nts	47				
6 E Ponkin	~	50				
o. E-Dalikili	J	30				
BLOCK-III : WEBSITE DEVELOPMENT AND HOSTING						
7. Website [Development	68				
	•					

S.No	. Chapterwise Reference Book	Page				
8.	Electronic Commerce Software	77				
9.	Web Server Hardware and Software	85				
BLOC	CK-IV : CYBER SECURITY AND IT ACT					
10.	Cyber Security	95				
11.	Cyber Security Measures	106				
12.	IT Act, 2000	117				
BLOCK-V : ONLINE PORTAL AND APPLICATION						
13.	E-Tailing	128				
14.	E-Services	139				
15.	App Based Commerce	150				

Sample Preview of the Solved Sample Question Papers

Published by:



www.neerajbooks.com

QUESTION PAPER

June – 2024 (Solved)

E-COMMERCE

BCOS-184

Time: 3 Hours] [Maximum Marks: 100

Note: Attempt all the questions. All questions carry equal marks.

Q. 1. What is e-Commerce? Discuss advantages and disadvantages of e-Commerce. Comment on how e-Commerce has flexibility with 24/7 service capability.

Ans. Ref.: See Chapter-1, Page No. 6-7, Q. No. 1, 2 and 3.

Q. 2. (a) What is Website Hosting? Discuss the types of website hosting.

Ans. Ref.: See Chapter-7, Page No. 75-76, Q. No. 8.

(b) Discuss the different types of Web Server. Ans. Ref.: See Chapter-9, Page No. 90, Q. No. 1.

Q. 3. Distinguish between any *four* of the following:

(a) Internet vs. WWW.

Ans. Ref.: See Chapter-10, Page No. 96, 'Internet and World Wide Web'.

(b) Spyware Threats vs. Phishing.

Ans. Ref.: See Chapter-10, Page No. 98, 'Spyware Threats and Phishing'.

(c) Digital Signature vs. Electronic Signature.

Ans. Ref.: See Chapter-12, Page No. 123, Q. No. 2 (i).

(d) IT Act, 2000 vs. IT (Amendment) Act, 2008. Ans. Ref.: See Chapter-12, Page No. 123, Q. No. 2(ii).

(e) Symmetric Encryption vs. Asymmetric Encryption.

Ans. Ref.: See Chapter-12, Page No. 120, 'Symmetric Encryption and Asymmetric Encryption'.

Q. 4. (a) What are e-Services? Discuss the various advantages of e-Services.

Ans. Ref.: See Chapter-14, Page No. 145-146, Q. No. 1.

(b) What is Cyber Security? Explain its types.

Ans. Ref.: See Chapter-10, Page No. 95, 'Meaning of Cyber Security' and Page No. 96-97, 'Cyber Security'.

Q. 5. (a) Discuss the steps of an App Development Process.

Ans. Ref.: See Chapter-15, Page No. 156-157, O. No. 4.

Q. (b) Discuss the 7C's of retail mix.

Ans. Ref.: See See Chapter-13, Page No. 135, O. No. 5.

Q. 6. (a) What is e-Tailing? Explain its advantages for retailers as well as buyers.

Ans. Ref.: See Chapter-13, Page No. 132, Q. No. 1.

(b) What will be the things that need to be considered before initiating an online funds transfer? Explain with suitable examples.

Ans. Ref.: See Chapter-6, Page No. 63-64, Q. No. 2.

Q. 7. Justify the following statements with suitable examples for each:

(a) Gartner Group Inc. Model on Evolution of e-Government and e-Governance.

Ans. The Gartner Group Inc. model on the evolution of e-Government and e-Governance describes the stages of digital transformation in government services. The model typically divides the evolution into four key stages:

1. Presence/Information Dissemination Stage:

Description: At this initial stage, governments establish a basic online presence by creating informational websites that provide citizens with access to basic information such as government policies, office hours, and contact information. However, interaction remains limited to one-way communication.

Example: A local municipality sets up a website where citizens can find information on public services, tax deadlines, and contact details for various departments. For example, in the early 2000s, many governments started creating static websites providing downloadable forms and informational content.

2 / NEERAJ: E-COMMERCE (JUNE-2024)

2. Interaction Stage:

Description: This stage adds more functionality, allowing limited interaction between the government and citizens. This can include downloadable forms, search features, and basic online services like filing complaints or scheduling appointments. However, transactions still require physical processing.

Example: A government website that allows users to download forms for various applications (like birth certificates, tax filing) but requires the forms to be submitted physically. India's early efforts with the MCA21 (Ministry of Corporate Affairs) website provided downloadable forms for corporate filings before later allowing electronic submissions.

3. Transaction Stage:

Description: At this stage, governments provide full transactional capabilities, enabling citizens to complete various services online, such as applying for permits, paying taxes, and renewing licenses. The government systems integrate with back-end processes to provide a seamless experience.

Example: The UK government's "GOV.UK" portal enables citizens to pay taxes, apply for passports, and renew licenses fully online. The entire transaction process is completed digitally, with e-signatures and online payments integrated.

4. Transformation Stage:

Description: In the final stage, governments move toward a fully integrated system where various agencies collaborate and share data across platforms. This allows for holistic governance, personalization of services, and a seamless citizen experience across departments.

Example: Estonia is one of the most advanced examples of this stage. The Estonian e-Residency program allows foreign nationals to establish businesses in Estonia entirely online, with the government providing seamless services such as tax filing, business registration, and banking, all through a single digital platform.

Each stage of this model represents a significant leap in technological sophistication and citizen interaction, ultimately leading to more efficient, transparent, and responsive governance.

(b) All software features that are available on an e-Commerce web portal are popularly accessible through mobile friendly application interface.

Ans. Many e-Commerce companies have recognized the importance of offering their services through mobile applications, given the increasing use of smartphones for online shopping. The statement emphasizes that the same features available on a web

portal should also be easily accessible through a mobilefriendly application interface. Below are some examples that support this:

1. Search and Filter Options:

Web Portal: E-commerce websites like Amazon offer powerful search functionalities with advanced filtering options by price, rating, brand, etc.

Mobile App: The Amazon mobile app provides an equally robust search feature with user-friendly filtering and sorting options, optimized for smaller screens and touch input.

2. Product Reviews and Ratings:

Web Portal: Websites like Flipkart or eBay allow customers to view detailed product ratings and reviews.

Mobile App: These same reviews and rating systems are accessible through the mobile app, with well-designed interfaces for scrolling through reviews, sorting them by relevance, and even writing reviews directly through the app.

3. Shopping Cart and Wishlist:

Web Portal: On the desktop version of ecommerce platforms, users can easily add items to their cart or wishlist for future purchases.

Mobile App: Apps like Shopify or Walmart's mobile app allow users to perform the same tasks, with streamlined navigation designed for mobile. Items added to the cart or wishlist on the web portal are often synced with the mobile app for a seamless experience.

4. Payment and Checkout:

Web Portal: Payment gateways, including multiple payment options like credit cards, digital wallets, and bank transfers, are a standard feature of ecommerce websites.

Mobile App: Mobile apps like Alibaba and Paytm Mall incorporate the same payment features, optimized for mobile payments like Google Pay, Apple Pay, and other mobile wallets, making it more convenient for mobile users to complete their purchases on the go.

5. Order Tracking and Notifications:

Web Portal: Once an order is placed, users can track their order status, shipment progress, and delivery timelines via the e-commerce website.

Mobile App: Applications like Myntra and Zalando provide real-time notifications, including order updates and shipment tracking, often enhanced with push notifications, a feature that's more engaging on mobile platforms.

6. Customer Support and Chatbots:

Web Portal: E-commerce websites like BestBuy and Amazon offer customer service options, including live chat and help sections.

Sample Preview of The Chapter

Published by:



www.neerajbooks.com

E-COMMERCE

BLOCK-I: BASICS OF E-COMMERCE

Introduction to E-Commerce



INTRODUCTION

Internet has revolutionised the way we do business. It has made easy to access to various kinds of information, services and products. We now have an alternative to the traditional format of buying and selling. By using internet, we can perform all types of business functions. Buyers and sellers can meet on the specially designed website or web-portal to do such transactions. In this chapter, we will understand the basics of online businesses, also called e-commerce.

CHAPTER AT A GLANCE

MEANING OF E-COMMERCE

E-commerce or electronic commerce is the business transactions over internet. E-commerce involves all types of products ranging from breads or soaps to expensive products like cars and property. The web-portals on which the e-business is conducted are of two types: Generic and Specific. Generic portals sell all types of commodities. Examples include Flipkart and Amazon. Specific sells specific products. Examples include Examples include Big Basket, which sells only grocery items.

E-Commerce Web-Portal

A web-portal or a portal, is a collection of several inter-related websites on a specific theme and acts as a single-stop window for the visitors for that theme. It can be called an integrated collection of web-pages to provide all the desired information at a single point and other facilities like an internal search engine, personalised logins and e-mails to its regular visitors, online forums and much more. A web-portal provides users a more cohesive experience for which it is designated. It facilitates visitors to access all these features in a user-friendly manner. A web-portal which

hosts the products and services details is called an ecommerce web-portal. A web-portal needs to be designed in such a way that sellers can provide its buyers a wide set of option of products, price-choices and related services that they offer, using it as an online shopping platform. Thus, an e-commerce web portal provides a range of activities related to selling of products and services. Specially designed ecommerce software is used to manage these activities on the portal.

E-Commerce Software

E-commerce software ensures smooth conduct of the entire online business and provides various facilities and utilities to both the buyer and the seller. A typical e-commerce software provides a dedicated engine for searching various products and/or price preferences. It helps a buyer to select the items to buy. It enables secure monetary transactions to complete the buying. An e-commerce software also helps the buyer to collate multiple orders in a dedicated basket and change anytime during the process. It also manages address details and order history for each of its buyers.

E-Commerce APIs

API stands for application programming interface. An API is a way to programmatically interact with a separate software component or resource. E-commerce APIs are used to exchange information from one feature to another, from one software to another, from one platform to another. For example, e-commerce API helps integrate various websites conducting different activities. For example, there are product information APIs for getting product details, inventory APIs for tracking the inventory management and order APIs for tracking the inventory management. These APIs interact and make the e-commerce transactions possible.

M-Commerce and Multi-Channel Commerce

M-commerce or mobile commerce is the use of digital devices like cellphones and tablets to conduct

2 / NEERAJ: E-COMMERCE

commercial transactions online. It facilitates ecommerce through mobile-friendly application interfaces, called apps or applications. Multi-channel commerce provides multiple ways for businesses to interact directly and indirectly with customers. Besides a web-portal or a mobile phone, several other channels including social-media accounts and even physical outlets, are configured to provide ease-of-access to the buyers. Multi-channel commerce uses e-mails and social media as their digital marketing channels.

Use of Emerging Technologies in E-Commerce

E-commerce now involves using of different new technologies such as Artificial Intelligence (AI), Machine Learning (ML) techniques, Augmented Reality (AR), Virtual Reality (VR), block chain and many more. The new technologies provide customers with an enhanced user experience (UX) and comfortable User Interface (UI).

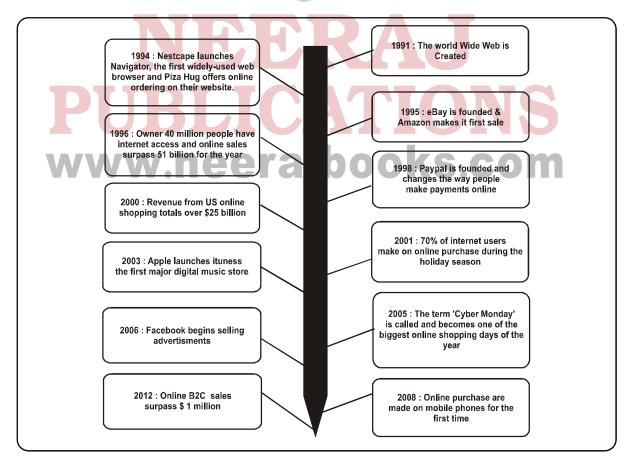
WHY E-COMMERCE

E-commerce is easy to use, economical and accessible. A seller does not have to build a brick and

mortar physical soap for selling a product or a service. A buyer does not have to travel to various shops to compare and buy the best product. Both buyers and sellers gain from e-commerce. Buyers can compare varied prices and features of products available on any e-marketplace just sitting at any place. E-commerce has made business more competitive, easier, diverse and more profitable.

EVOLUTION OF E-COMMERCE

The design of World Wide Web in 1991 made the use of Internet easy. In 1994, Pizza Hut was the first company to offer its Pizza online on its site. A year after eBay was established. Since 1995 e-commerce, earlier called web commerce, gained its prominence. Several retail websites started sale/purchase of goods and services. In late 1990s, the dot.com bubble burst. By 2005, the rise in online purchases on certain days became so much that the term "Cyber Mondays" was used.



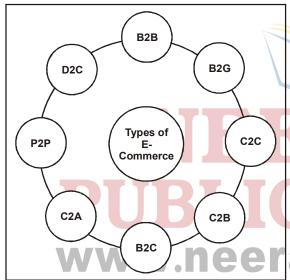
INTRODUCTION TO E-COMMERCE / 3

Evolution of e-commerce (1994-2012)

The Present: Now digital devices such as smart phones and tablets have widened e-commerce. Most businesses have online presence. The structure and nature of business have also changed. Changes have happened in trade practices, trade techniques and standards. E-commerce has increased the scope for businesses.

TYPES OF E-COMMERCE

Different models of e-commerce are classified as B2B (Business-to-Business), B2C (Business-to-Consumer), C2C (Consumer-to-Consumer), C2B (Consumer-to-Business), B2G (Business-to-Government), C2A (Consumer-to-Administration) and P2P (Peer-to-Peer) and (D2C) Direct to consumer.



Different Types of E-commerce

B2B: Business-to-Business Model of E-commerce

Business-to-Business means trade between businesses. It may be between a wholesaler and a manufacturer or a wholesaler and a retailer. An automobile company buying tire from a tire manufacturer is a B2B e-commerce.

B2C: Business-to-Consumer Model of E-Commerce

Business-to-Consumer (B2C) refers to the process of selling products and services directly by a business to consumers who are the end-users of its products or services. Most companies that sell directly to consumers can be referred to as B2C companies. Amazon and Flipkart are popular B2C companies.

C2C: Consumer-to-Consumer Model of E-Commerce

C2C: Consumer-to-Consumer e-commerce means consumers selling goods, services and products to

another consumer on the internet. This model involves selling of various products including movable assets and properties. OLX is an example C2C e-commerce.

C2B: Consumer-to-Business Model of E-Commerce

B2C e-commerce means consumers selling goods, services and products to a business. In another version of this model, the consumers create and utilize their own social media profiles like blogs to link back to the product sold on a company's website, thereby facilitate the sale of the product and get commission for that.

B2G: Business-to-Government Model of E-Commerce

B2G or Business-to-Government, also called business-to-Administration, means a business selling products to governments. B2G e-business is also called public sector marketing. Government invites tenders, and selects one of the businesses which apply for that. C2A: Consumer-to-Administration Model of E-Commerce.

C2A or Consumer-to-Administration e-commerce includes all electronic transactions conducted between individuals and public administration. It refers to the e-commerce process followed by the consumers when interacting directly with the government agencies. Payment of utility bills including electricity and water, tax payments, health insurance payments made using web and mobile applications are examples of C2A model

P2P: Peer-to-Peer Model of E-Commerce

P2P e-commerce refers to a networked model of transactions without an intermediary. It is a distributed platform in which different individuals take part in transactions without an in between third party. It is different from the client server model where communication happens from the central server. Another variation of 'P2P' models is any transaction for buying and selling, but simply provides a platform or individuals to interact for various ends. Such services are operated as free non-profit services or generate revenue by advertising to users or by selling users data. Open-source software, online marketplaces, crypto currency and ridesharing are examples of P2P e-commerce.

D2C: Direct-to-Consumer Model of E-Commerce

D2C e-commerce refers to the manufacturer/producer selling its products/produce directly to consumers online. The D2C e-commerce model does not need the middleman. The traditional retailer business model deals with bulk buying, so for a manufacturer to start selling direct-to-consumer they

4 / NEERAJ: E-COMMERCE

would have to start selling individual items. D2C brands such as Casper, Warby Parker and Everlane are usually sold online only and come under a specific product category.

Diagrams are given in Q&A section.

ADVANTAGES AND DISADVANTAGES OF E-COMMERCE

The following table lists the Advantages and Disadvantages of E-commerce:

Advantages		Disadvantages	
1.	The e-shop is open 24 hours a day, 7 day a week.	1.	When ordering a product online, it often takes longer delivery time and more shipping charges.
2.	Customer don't need to stand in queues of stores	2.	Repaying your online purchase may be more difficult than buying a traditional store.
3.	Larger product selection.	3.	Online shopping will not be able to measure goods.
4.	Possibility to shop from anywhere.	4.	Money security of the customers depende on their own vigilance.
5.	Attractive discounts are offered.	5.	Lack of privacy.

Advantages of E-Commerce

The advantages of E-commerce are:

- (i) Saves time: A buyer does not have to spend time on travel and looking around for a product.
- (ii) Offers personalised consumer preference: Customers have personalized experience as they can check their history of purchases and benefits and discounts they can avail.
- (iii) Reduces recurring cost: E-commerce firm can be present in multiple locations at a fraction of the cost of physical presence. It can also outsource the tasks to others.
- (iv) Customers retargeting is easier: Ecommerce firm can use various tolls to retarget a customer to retain a customer base.
- (v) Easy to trigger an impulse buy: It is easier for an e-commerce firm to trigger an impulse buying by using various tools.
- (vi) Reviews are helpful: Reviews help the consumer to make right decisions. It also helps the e-commerce firms as positive comments build trust of the consumer on the product as well as the business.
- (vii) Detailed information helps the consumer:

 The availability of detailed information helps the consumer to make a confident and right choice.
- (viii) Low operation cost: E-commerce reduces the cost of operations significantly as the business does not have to rely on a physical presence to provide quality service.

- (ix) Quick and affordable marketing: Ecommerce firms can apply various online strategies to reach the customers.
- (x) E-commerce has flexibility with 24/7 service capability: E-commerce allows round-the-clock service to consumers.

Disadvantages of E-Commerce

The disadvantages of E-commerce are:

- (i) No feel and touch: A consumer cannot feel and touch a product while buying online.
- (ii) Quality can be determined: Buyers cannot determine the quality of a product being sold online.
- (iii) No fixed date for delivery: Businesses do not give exact delivery dates and buyers are not sure when the product will be delivered.
- (iv) Difficulty in purchasing precious products: Buyers do not feel confident to buy precious products like gold and furniture because they lack trust and are unable to verify these products.
- (v) Site crash issues: The functioning of servers and the quality internet service determine the online buying experience. Many times the sites get stuck and transactions fail.
- (vi) Cybercrime and Data privacy issues: It is unsafe to provide personal information while purchasing online because of cyber crime and data privacy issues.

CHECK YOUR PROGRESS

- Q. 1. State the type of E-Commerce system.
- (i) The companies involved come together to conduct business with each other.