



FD-1000

DCA 1st Semester
Examination, Dec.-Jan., 2021-22

ESSENTIALS OF INFORMATION TECHNOLOGY AND OS

(DCA - 101)

Time : Three Hours] [Maximum Marks : 100
[Minimum Pass Marks : 33

Note : Answer any two parts from each question. All questions carry equal marks.

Unit-I

1. (a) Draw block diagram of a computer. Explain different sections of it.
- (b) Describe the features of micros, minis and mainframe computer.
- (c) Differentiate between PC-XT and PC-AT.

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(Turn Over)

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(2)

Unit-II

2. (a) What are scanning devices ? Discuss OMR, OCR and MICR.
(b) What are secondary storage devices ? Discuss any two.
(c) Write a short note on flat screen technologies.

Unit-III

3. (a) Describe the system files of disk operating system.
(b) Define the following DOS internal commands :
(i) DIR
(ii) COPY
(iii) REN
(iv) CLS
(v) MD
(c) Explain the creation of batch files in DOS.

Unit-IV

4. (a) What is Windows operating system ? Write the features of it.
(b) Write a short note on Microsoft paint.
(c) Discuss about internet explorer basics.

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Unit-II

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Unit-III

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Unit-IV

4. (a) What is Windows operating system? Write the features of it.
- (b) Write a short note on Microsoft paint.
- (c) Discuss about internet explorer basics.

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Unit-II

2. (a) What is MS Excel? Explain its features with example.
- (b) Write the name of different types of charts available in Excel? Explain the importance of graph.
- (c) Explain any five mathematical functions in Excel with appropriate example.

Unit-III

3. (a) What is the MS PowerPoint? What are the features and use of MS PowerPoint?
- (b) Describe the process of slide transition in MS PowerPoint.
- (c) Write notes on the following :
- (i) Insert graphics and sound
- (ii) Insert Movies

Unit-IV

4. (a) What is RDBMS? Explain with example.
- (b) How to create table in MS Access? What is the purpose of creating primary key?
- (c) Explain the following SQL commands with example :
- (i) selection
- (ii) update
- (iii) delete

(2)

Unit-II

2. (a) Write a program to show the use of arithmetic operator.
- (b) What are the roles of operator ? Describe the different types of operator.
- (c) What is preemptive data type ? Explain.

Unit-III

3. (a) Write a program to check factorial of any number.
- (b) Explain any two control statements with suitable example.
- (c) Write short notes on the following :
 - (i) Continue statement
 - (ii) Go-to statement

Unit-IV

4. (a) Explain any one user define and one library function with example.
- (b) Write the difference between structure and union.
- (c) Write a short note on 'Structure within Structure'.

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Unit-V

5. (a) What is Pointer? Write a program to demonstrate the use of pointer.
- (b) Write a program to demonstrate the use of two dimensional array.
- (c) Write short notes on the following :
- (i) Void pointer
 - (ii) Address operator
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GD-1000

DCA 1st Semester
Examination, Dec.-Jan., 2022-23

ESSENTIALS OF INFORMATION TECHNOLOGY AND OS

(DCA - 101)

Time : Three Hours] [*Maximum Marks* : 100

[*Minimum Pass Marks* : 33

Note : Answer any two parts from each question. All questions carry equal marks.

Unit-I

1. (a) What is Computer? Explain with block diagram of a computer.
- (b) Describe the characteristics of computer.
- (c) Differentiate among analog computer, digital computer and hybrid computer.

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(Turn Over)

(2)

Unit-II

2. (a) Write short notes on the following :
- (i) Keyboard
 - (ii) MICR
- (b) What is difference between primary memory and secondary memory ?
- (c) Write short note on Cathode Ray Tube (CRT).

Unit-III

3. (a) What is booting process in DOS ? Explain in detail.
- (b) What is internal command in DOS ? Explain any five internal DOS Commands.
- (c) Explain the following DOS Commands :
- (i) CHKDSK
 - (ii) XCOPY
 - (iii) EDIT
 - (iv) FDISK
 - (v) SORT

Unit-IV

4. (a) Write the feature of windows operating system.

- (b) Discuss about control panel.
- (c) Write short notes on the following:
 - (i) Recycle Bin
 - (ii) Notepad

Unit-V

5. (a) What is Linux? Explain the feature of Linux OS.
- (b) Discuss the file system in Linux OS.
- (c) What is vi Editor? Explain its different mode.
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(2)

Unit-II

2. (a) Explain sorting and filtering a database in MS Excel.
- (b) Explain any five trigonometric functions in MS Excel with suitable example.
- (c) How to protect work in MS Excel by password protection ? Explain.

Unit-III

3. (a) Explain the process of setting page layout and selecting background design.
- (b) Write the name of various charts present in PowerPoint. Explain creating chart and graph.
- (c) Explain different types of slides in Power Point in detail.

Unit-IV

4. (a) What do you mean by database ? Explain the features of MS Access.
- (b) What is Relationship ? Explain with its type.
- (c) What is Query ? Explain in detail.

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Unit-V

5. (a) Write short notes on the following :
- (i) Accounting Conventions
 - (ii) Types of Accounts
- (b) What is Tally ? Write the features of Tally in detail.
- (c) Explain the preparation of Trial Balance in detail.
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Unit-II

2. (a) What do you mean by Operator? What are the various types of operators?
- (b) Explain operator precedence and associativity.
- (c) Differentiate between comparison and conditional operator.

Unit-III

3. (a) Differentiate between break and continue.
- (b) Write a C program to find the factorial of a given number.
- (c) Explain various branching statements in C with examples.

Unit-IV

4. (a) Define structure and write the general syntax for declaring and accessing members.
- (b) Define union. Give the general template for the union.
- (c) Write a C program to read and display student details using structure.

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Unit-V

5. (a) What are the features of pointers? Write a C program to print the address of a variable.
- (b) With proper examples explain different arithmetic operations on pointers.
- (c) Write a C program to read and print an array of elements using pointers.
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2. (a) Explain ALINK and VLINK with example.
- (b) Write the HTML code for the following table :

Roll No.	Name	Address
101	RAVI	RAIPUR
102	POOJA	DURG

- (c) Explain the following :

- (i) PRE
- (ii) LIST
- (iii) DIV
- (iv) Hypertext Anchors

3. (a) How to insert an image in webpage? Explain with image elements.
- (b) Write the HTML code for the following frames :

File 1	
File 2	File 3

In above frame, frame must be having two rows and two columns (where first row should be 10% and second row is 90%, first column should be 50% and second column is 50% of row number 2).

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- (c) How to link webpage to another webpage? Explain with example in detail.
4. (a) Write a source code for client side scripting.
- (b) Explain hosting and promotion of website.
- (c) Differentiate static and dynamic webpages with suitable example.
5. (a) Describe the security and applications of internet.
- (b) What is distributed computing? Draw and explain the working of distributed computing.
- (c) Explain the following :
- (i) DNS
 - (ii) ISP
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- (c) What is Internet? Explain various services offered by the Internet. What are the disadvantages of the Internet?

इंटरनेट क्या है? इंटरनेट द्वारा दी जाने वाली विभिन्न सेवाओं के बारे में लिखिए। इंटरनेट के नुकसान क्या हैं?

Unit-II

2. (a) संक्षेप में EDI की व्याख्या कीजिए। तथा EDI मूल बातें और EDI मानकों का भी वर्णन कीजिए।

Explain EDI in brief and also describe EDI basics and EDI standards.

- (b) इलेक्ट्रॉनिक भुगतान प्रणाली क्या है? इलेक्ट्रॉनिक भुगतान प्रणाली की विशेषताएँ, समस्याएँ और लाभ बताइए।

What is Electronic Payment System? Explain various features, problems and advantages of Electronic Payment System.

निम्नलिखित पर संक्षिप्त टिप्पणियाँ लिखिए :

- (i) एफ० ई० डी० आई०
(ii) निजी नेटवर्क पर ई-कॉमर्स

Write short notes on the following :

- (i) FEDI
(ii) E-Commerce on private networks

Unit-III

3. (a) इंटरनेट पर एन्क्रिप्शन और लेनदेन सुरक्षा का वर्णन कीजिए तथा इंटरनेट में उपयोग किए जाने वाले विभिन्न प्रकार के एन्क्रिप्शन को समझाइए।

Describe encryption and transaction security over internet, also explain various types of encryption used in the internet.

- (b) नेटवर्क सुरक्षा क्या है? नेटवर्क पर डेटा सुरक्षित करने के लिए कौन से तरीके उपलब्ध हैं?

What is Network Security? What are the methods available to secure data on network?

- (c) निम्नलिखित को समझाइए :

(i) निजी और सार्वजनिक जानकारी

(ii) हैकिंग और वायरस सुरक्षा

Explain the following :

(i) Private and Public information

(ii) Hacking and virus protection

Unit-IV

4. (a) ई-कॉमर्स भुगतान प्रणाली के विभिन्न मॉडलों का वर्णन कीजिए।

Describe different models of E-Commerce payment system.

- (b) भारतीय रिजर्व बैंक के इलेक्ट्रॉनिक समाशोधन की वैकल्पिक भुगतान प्रणाली का वर्णन कीजिए।

Describe alternative payment system of electronic clearing of RBI.

- (c) निम्नलिखित का विश्लेषण कीजिए :

- (i) ऑनलाइन बैंकिंग
- (ii) कार्ड भुगतान प्रणाली

Analyse the following :

- (i) Online Banking
- (ii) Card payment system

Unit-V

- (a) B2B और B2C के बीच अन्तर लिखिए।

Differentiate between B2B and B2C.

- (b) B2B2C को समझाइए तथा इसके लाभ एवं हानि लिखिए।

Explain B2B2C and write its advantages and disadvantages.

- (c) व्यापार लेनदेन चक्र और ई-मार्केट को समझाइए।

Describe Business transaction cycle and E-Markets.

Roll No.

ID-1003

**D. C. A. (Second Semester)
EXAMINATION, May-June, 2025**

PROGRAMMING IN PYTHON

(DCA-105)

Time : Three Hours

Maximum Marks : 100

Minimum Pass Marks : 33

Note : Attempt any *two* part from each question. All questions carry equal marks.

Unit—I

1. (a) What is python ? Explain basic syntax, editing saving and running a script of python.
- (b) What are relational operator ? Explain with suitable example.
- (c) Write short notes on the following :
 - (i) Immutable variable
 - (ii) Understanding error messages

P. T. O.

Unit—II

2. (a) What are control statements ? Explain branching control statement in detail.
- (b) Write difference between break and continue statement.
- (c) What is recursion ? Explain with suitable example.

Unit—III

3. (a) What are Text Files ? Explain reading text and numbers from a file.
- (b) Explain deletion from a tab-separated formatted file.
- (c) Explain conversion of string to numbers in details.

Unit—IV

4. (a) What is list ? Explain basic list operators.
- (b) What is dictionary literal ? Explain adding and removing keys, guessing and replacing values in dictionary.
- (c) Explain elementary data representation using list like stack and queue.

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Unit—V

5. (a) What is Modul in PYTHON ? Explain random module in detail.
- (b) What is user-defined exception ? Explain with suitable example program.
- (c) Write short notes on the following :
- (i) Packages
 - (ii) Composition

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Roll No.

ID-1004

**D. C. A. (Second Semester)
EXAMINATION, May-June, 2025
E-COMMERCE
(DCA-106)**

Time : Three Hours

Maximum Marks : 100

Minimum Pass Marks : 33

नोट : प्रत्येक प्रश्न से किन्हीं दो भागों का उत्तर दीजिए। सभी प्रश्नों के अंक समान हैं।

Answer any *two* parts from each question. All questions carry equal marks.

इकाई-1

(UNIT-1)

1. (अ) इलेक्ट्रॉनिक कॉमर्स क्या है ? इसके भारत में प्रभाव को समझाइए।

What is electronics commerce ? Explain its impact in India.

P. T. O.

(ब) इंटरनेट क्या है ? इसके पारंपरिक व्यापारों पर प्रभाव को समझाइए।

What is internet ? Explain its impact on traditional businesses.

(स) ई-कॉमर्स वातावरण को केस स्टडी के साथ समझाइए।

Explain the E-commerce environment with case studies.

इकाई—2

(UNIT—2)

2. (अ) EDI क्या है ? इसके मूल बातें और मानकीकरण की व्याख्या कीजिए।

What is EDI ? Explain its basics and standards.

(ब) अमेरिका में भुगतान प्रणाली के साथ अंतर्राष्ट्रीय व्यापार लेन देन के लिए FEDI को समझाइए।

Explain the FEDI for international trade transaction with payment system in U.S.

(स) इलेक्ट्रॉनिक भुगतान प्रणाली क्या है ? भारत में ई-कॉमर्स को विस्तार से समझाइए।

What is electronic payment system ? Explain E-commerce in India in details.

इकाई—3

(UNIT—3)

3. (अ) क्लाइंट और नेटवर्क सुरक्षा को समझाइए।

Explain the client and network security.

- (ब) विभिन्न सुरक्षा उपाय पहलुओं को समझाइए।

Explain the different security measure aspects.

- (स) डिजिटल हस्ताक्षर क्या है ? सार्वजनिक कुंजी एन्क्रिप्शन को विस्तार से समझाइए।

What is digital signature ? Explain public key encryption in details.

इकाई—4

(UNIT—4)

4. (अ) शुद्ध और हाइब्रिक ई-कॉमर्स भुगतान मॉडल पर चर्चा कीजिए।

Discuss the pure and hybrid E-Commerce payment model.

- (ब) क्रेडिट कार्ड, डेबिल कार्ड और प्रीपेड कार्ड को विस्तार से समझाइए।

Explain credit card, debit card and prepaid card in detail.

P. T. O.

- (स) वैकल्पिक भुगतान प्रणाली के लिए भारतीय रिजर्व बैंक की इलेक्ट्रॉनिक समाशोधन प्रणाली का वर्णन कीजिए।

Describe the electronic clearing system of Reserve Bank of India for alternative payment system.

इकाई—5

(UNIT—5)

5. (अ) B2C ई-कॉमर्स क्या है ? समझाइए।

What is B2C e-Commerce ? Explain.

- (ब) ई-कॉमर्स वातावरण में विभिन्न प्रकार के लेन-देन को समझाइए।

Explain the different types of transactions in e-Commerce environment.

- (स) ई-मार्केट के लाभ और हानियाँ लिखिए।

Write the advantages and disadvantages of E-Market.

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Roll No.

ID-1005

D. C. A. (Second Semester)

EXAMINATION, May-June, 2025

HTML AND INTERNET APPLICATIONS

DCA-107

Time : Three Hours

Maximum Marks : 100

Minimum Pass Marks : 33

Note : Attempt any *two* part from each question. All questions carry equal marks.

1. (a) What do you mean by HTML ? Explain the elements of HTML Documents.
- (b) Write short notes on the following :
 - (i) Web Site
 - (ii) CSS
- (c) Explain the following tags :
 - (i) <HTML>

P. T. O.

- (ii) <TITLE>
 - (iii) <BODY>
 - (iv) <HR>
 - (v) <P>
2. (a) Briefly explain the attributes of Body element in HTML.
- (b) What do you mean by linking ? Explain the ALINK and VLINK.
- (c) Write short notes on the following tags :
- (i) <TABLE>
 - (ii) <LIST>
3. (a) Explain the Tag in brief.
- (b) What do you mean by Anchor Tag ? Explain their attributes.
- (c) What do you mean by Frame's in HTML ? Explain with example.
4. (a) What do you mean by search engine ? Explain it.
- (b) Explain the types of scripting language in detail.
- (c) What is downloading on uploading the Website ? Explain FTP.

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5. (a) Briefly explain the Anatomy of Internet.
- (b) Write short notes on the following :
- (i) Client Server Computing
 - (ii) Distributed Computing
- (c) Describe the Internet Application in real word.

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