

This question paper contains 4 printed pages]

Roll No.

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No. of Question Paper : 1266

Unique Paper Code : 62341101

I

Name of the Paper : Computer Fundamentals

Name of the Course : B.A. (Prog.) : Computer Applications

Semester : I

Duration : 3 Hours

Maximum Marks : 75

Write your Roll No. on the top immediately on receipt of this question paper.)

Section A is compulsory.

Attempt any five questions from Section B.

Section A

- I. (a) List three main components of computer hardware. 3
- (b) Give full form of the following : CD-ROM, USB, EEPROM, and ATM. 2
- (c) Give two differences between Dumb Terminal and Intelligent Terminal. 2
- (d) Name three Pointing Devices. 3
- (e) Give the valid digits in the following number systems : Decimal, Octal, Hexadecimal. 3

P.T.O.

33

- (f) Give *two* examples of system software. 2
- (g) Give *two* differences between Pointing devices and Pick devices. 2
- (h) List *three* significant limitations of the computer. 3
- (i) Write a short note on Antivirus Utility. 2
- (j) Convert 147 from Base 10 to Base 2 and Base 8. 3

Section B

2. (a) Explain main functions of CPU. Draw block diagram of CPU to show its different parts. 5
- (b) Highlight the differences between microcomputer, minicomputer, mainframe computer and super computer. 5
3. (a) Convert the binary number 1100110011 into Octal number and Hexadecimal number. 4
- (b) Perform the following Binary Operations : 6
- (i) $(1001) + (1111)$
- (ii) $(1111) - (1001)$
- (iii) $(10111) + (11000)$

4. (a) Give differences between the following : 6
- (i) Ink-jet printers and Laser printers
 - (ii) System software and Application software
 - (iii) SRAM and DRAM.
- (b) Write *four* key functions of Operating System. 4
5. (a) What are utility programs ? Explain Data Backup Utility. 4
- (b) Give *two* features of each : Joystick, Scanner, and Touch Screen 6
6. (a) Explain the need of Cache Memory and state *three* important features of Cache memory. 4
- (b) Define the following : 6
- (i) POST
 - (ii) Registers
 - (iii) Input-Process-Output
7. (a) Explain how computer is useful in the areas of Entertainment, Education and Advertising. 6
- (b) Show the hierarchy of different memory types with the help of diagram. 4

P.T.O.

8. Write short notes on the following :

10

- (i) Bluetooth
- (ii) Bigdata
- (iii) Cloud computing
- (iv) Mobile computing
- (v) Embedded system

This question paper contains 4 printed pages.

Your Roll No.

Sl. No. of Ques. Paper: 1306

I

Unique Paper Code : 62344328

Name of Paper : Computer Networks and Internet Technologies

Name of Course : B.A. (Prog.) : Computer Applications

Semester : III

Duration : 3 hours

Maximum Marks : 75

(Write your Roll No. on the top immediately on receipt of this question paper.)

Section A is compulsory.

Attempt any five questions from Section B.

1. (a) Write any *two* applications of computer network in business area. 2
- (b) Write the difference between break and continue in JavaScript. Explain with the help of an example. 4
- (c) Briefly explain Point-to-point and Multipoint connections. 4
- (d) Differentiate between connectionless and connection-oriented services. 3
- (e) What are search engines? List any *two* search engines. 3

P. T. O.

- (f) How can we change the background color on webpage? 2
- (g) Write the *five* main components of data communications. 5
- (h) Give an HTML command to insert an image into a cell of a table. 2

SECTION B

2. (a) Write the steps that occur when we type a web link in the address bar of a web browser. 7
- (b) What are three key elements of protocol? 3
3. (a) What is optical fiber? With the help of diagram describe different parts of an optical fiber. Describe the process of light transmission through optical fiber. 6
- (b) Briefly explain WAP and HTTP protocols. 4
4. (a) Describe the use of following HTML tags:—
- (i) `^{text}`
 - (ii) `<tr>`
 - (iii) ``
 - (iv) `
`
 - (v) `<frame>` 5
- (b) Write HTML code to generate the following output:— 5

S. No.	Name	Marks
1	Sita	40
2	Gita	30
Total		70

5. (a) Describe Physical Layer and Data Link Layer of OSI Model. 6

(b) Write a program to get the sum of digits of a number. 4

6. (a) Write the HTML code for the following: 3

```

      *
     * *
    * * *
   * * * *

```

(b) What is use of width attributes in table tag? 2

(c) Write a JavaScript code to find factorial of a positive integer. 5

7. (a) What is Topology? Describe in detail Mesh Topology with diagram. Also write one advantage and one disadvantage of Mesh Topology. 5

(b) Write a JavaScript program that will iterate from 0 to 15. For each iteration it will check if the current number is odd or even. 5

8. Write short notes on any *five* of the following:

(a) Telnet

P. T. O.

- (b) URL
- (c) Web Browser
- (d) Voice over IP
- (e) Bridge
- (f) LAN.

S.No. of Question Paper : 5381
Unique Paper Code : 290578
Name of the Paper : Mass Communication-I
Name of the Course : B.A. (Programme) Application Course
Semester : V

Roll No. _____

I

Time: 3 hours

Maximum Marks: 50

(Write your Roll No. on the top immediately on receipt of this question paper.)

(इस प्रश्न-पत्र के मिलते ही उपर दिए गए निर्धारित स्थान पर अपना अनुक्रमांक लिखिए।)

Note: Answers may be written either in English or in Hindi; but the same medium should be used throughout the paper.

टिप्पणी: इस प्रश्न-पत्र का उत्तर अंग्रेजी या हिन्दी किसी एक भाषा में दीजिए, लेकिन सभी उत्तरों का माध्यम एक ही होना चाहिए।

All questions are compulsory
Questions from each part must be attempted.

सभी प्रश्न अनिवार्य हैं।
प्रत्येक भाग के प्रश्न अनिवार्य हैं।

Part-I
(भाग 1)

1. Attempt in detail any *four* questions from this section:

4x8=32

इस भाग से कोई चार प्रश्न कीजिए:

- Explain the role of print media in a technologically advanced world.
तकनीकी रूप से विकसित संसार में प्रिंट मीडिया की भूमिका स्पष्ट कीजिए।
- Analyze the intrinsic connection between mass communication and social change.
जनसंचार और सामाजिक बदलाव के आंतरिक संबंध का विश्लेषण कीजिए।
- "Advertising helps maintain a façade." Comment on this statement and give a reasoned answer.
'विज्ञापन प्रदर्शन की प्रवृत्ति को बढ़ाया देता है', इस कथन का तर्कपूर्ण उत्तर दीजिए।

- (d) "The radio affects people in ways vastly different from the television." Critically comment and give a reasoned answer.
रेडियो लोगों को टेलीविजन से अलग व्यापक स्तर पर प्रभावित करता है। विवेचनात्मक और युक्तियुक्त उत्तर दीजिए।
- (e) Define an advertisement. Analyze the different types of advertisement.
विज्ञापन को परिभाषित करते हुए उसके प्रकारों पर विचार कीजिए।
- (f) What is Mass Communication? Critically comment on its role in a democracy.
जनसंचार को परिभाषित करते हुए लोकतंत्र के निर्माण में उसकी भूमिका रेखांकित कीजिए।

Part-II

(भाग 2)

2. Write short notes on any *two* of the following in 150 words. 2x4=8
निम्नलिखित में से किन्हीं दो पर, प्रत्येक 150 शब्दों में, संक्षिप्त टिप्पणी लिखिए:

- (a) 'Communication' in Mass Communication.
जनसंचार में 'संचार'।
- (b) Outdoor Mass Media.
बाह्य जन माध्यम।
- (c) Books and Pamphlets.
पुस्तकें और पर्चे।
- (d) Publicity.
प्रचार।
- (e) Medium of Advertisements.
विज्ञापन के माध्यम।

Part-III

(भाग 3)

3. Write a paragraph of 250 words on any *one* of the following: 6
निम्नलिखित में से किसी एक पर 250 शब्दों में लेख लिखिए:

- a. Female Literacy programme.
स्त्री साक्षरता अभियान।
- b. Environment and its deterioration.
पर्यावरण और उसका क्षरण।
- c. Different types of natural calamities.
प्राकृतिक आपदा के रूप।
- d. Increase in suicidal tendencies in farmers.
किसानों में बढ़ती आत्महत्या की प्रवृत्ति।

4. Correct the errors in the following passage:

4

The lawn should be given top dress of fertilizeer, urea mixed with neem cake and from october onward cut grass close on the ground. Environmentalists recommends spraying of neem powder in the soil.

निम्नलिखित अवतरण में से अशुद्धियों को सही कीजिए:

यदि हम दूसरों को अपने विचारों भावों अनुभूतियों अनुभवों कल्पनाओं को बताने की दृष्टि से कठिनाई अनुभव करते हैं तो हम दूसरों द्वारा यही चीजें बताई जाने पर प्रसन्न होते हैं विशेषकर जब हम यह जानते हैं की जीवन से उनके संघर्ष की सीमा उनके कथन को असामान्य रूचि और मूल्यवत्ता प्रदान करता है

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S. No. of Question Paper : 1338

Unique Paper Code : 62343318

I

Name of the Paper : Office Automation Tools

Name of the Course : B.A. (Prog.) Computer Application :
Skill Enhancement Course

Semester : III

Duration : 2 Hours

Maximum Marks : 25

(Write your Roll No. on the top immediately on receipt of this question paper.)

Question No. 1 is compulsory.

Attempt any *three* questions from rest of the five.

All parts of a question must be answered together.

1. (i) In the word document border can be applied to :
- (a) page
 - (b) paragraph
 - (c) text
 - (d) All of the above

P.T.O.

(ii) Which of the following is *not* essential component to perform a mail merge operation ?

(a) Main document

(b) Data source

(c) Merge fields

(d) Word fields

(iii) Landscape is _____

(a) A font style

(b) Paper Size

(c) Page Layout

(d) Page Orientation

(iv) What is the shortcut key for line break ?

(a) CTRL + Enter

(b) Alt + Enter

(c) Shift + Enter

(d) Space + Enter

- (v) What does the HLOOKUP function do ?
- (a) Looks up text containing 'H'
 - (b) To replace a text
 - (c) Find related records
 - (d) All of the above
- (vi) Which of the following is an absolute cell reference ?
- (a) !A!1
 - (b) \$A\$1
 - (c) #a#1
 - (d) A1
- (vii) By default, how many sheets does a workbook have ?
- (a) 2
 - (b) 0
 - (c) 1
 - (d) 3

P.T.O.

(viii) What is an expression that tells how the numbers in a determined set of cells are to be calculated ?

(a) Formula

(b) Field

(c) Data

(d) Query

(ix) Which of the following formulas is *not* entered correctly ?

(a) =10+50

(b) =B7*B1

(c) =B7+14

(d) 10+50

(x) Which of the following functions yield the word **True** or **False** as a result ?

(a) SUM

(b) COUNT

(c) IF

(d) MIN

10×1=10

2. (a) Differentiate among COUNTA, COUNTIF and COUNTBLANK in Spreadsheet. 3
- (b) Enumerate how we can add and edit a pivot table in a spreadsheet. 2
3. Consider the following employee worksheet : 5

	A	B	C	D	E	F	G
1	NAME	GRADE 1/2/3	BASIC SALARY	HRA	PF	GROSS SALARY	NET SALARY
2	Amit	1	20000				
3	Sumit	2	12000				
4	Ajay	3	8000				
5	Suresh	1	14000				
6	Rajesh	3	6000				
7	Chandu	2	12000				
8	Rahul	1	16000				

P.T.O.

- (a) Write down formula to calculate HRA as given below :

Grade	HRA (% of basic)
1	40%
2	35%
3	30%

- (b) Write down formula to calculate PF as given below :

- If Basic Salary is greater than 15000, then PF is 10% of basic salary
- If Basic Salary is between 10000-15000, then PF is 7% of basic salary
- If Basic Salary is less than 10000, then PF is 5% of basic salary.

(c) $\text{Gross Salary} = \text{Basic Salary} + \text{HRA} + \text{TA}.$

(d) $\text{Net Salary} = \text{Gross} - \text{PF}.$

4. (a) What are Header and Footer used for in word processing ? 3
- (b) Enumerate any *two* ways of aligning the text in a typical word processing software. 2
5. Write the syntax of VLOOKUP function in a spreadsheet and illustrate with the help of example. 5
6. What is mail merge utility used for ? Write the steps for doing Mail Merge operation in word processing. 5

This question paper contains 4 printed pages]

Roll No.

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S. No. of Question Paper : 1441

Unique Paper Code : 62343502

I

Name of the Paper : Open Source Software

Name of the Course : B.A. (Prog.) Computer Applications :

Skill Enhancement Course

Semester : V

Duration : 2 Hours

Maximum Marks : 25

Write your Roll No. on the top immediately on receipt of this question paper.)

Question No. 1 is compulsory.

Attempt any *three* questions from rest of the five.

(i) Which loop repeats a group of statements for each item in a collection of objects for each element in an array ?

- (a) While loop
- (b) do while loop
- (c) do until loop
- (d) for loop

P.T.O.

- (ii) A _____ variable is declared inside a procedure.
- (a) global
 - (b) local
 - (c) external
 - (d) internal
- (iii) _____ indicates whether a particular condition is on or off.
- (a) Text box
 - (b) Check box
 - (c) Combo box
 - (d) List box
- (iv) A _____ is used for both input and output.
- (a) label
 - (b) text box
 - (c) combo box
 - (d) command button
- (v) Variable declaration is done using the _____ keyword.
- (a) Var
 - (b) Dim
 - (c) Declare
 - (d) Static

- (vi) Which file format offers the best image compression ?
- (a) JPG
 - (b) GIF
 - (c) PNG
 - (d) BMP
- (vii) What is the shortcut key combination in GIMP, to cut the selected item ?
- (a) Ctrl + Y
 - (b) Ctrl + C
 - (c) Ctrl + X
 - (d) Ctrl + Z
- (viii) What will happen if GIMP image is bigger than the image window ?
- (a) Image resize dialog box appears
 - (b) GIMP displays the image in a reduced zoom level
 - (c) Error message is shown
 - (d) Image is not displayed
- (ix) Which programming language is used to write plug-ins in GIMP ?
- (a) C
 - (b) Java
 - (c) Lua
 - (d) Python

P.T.O.

- (x) What is the shortcut key combination in GIMP, for undoing the last action ?
- (a) Ctrl + Z
- (b) Ctrl + C
- (c) Ctrl + X
- (d) Ctrl + Y. 10×1=10
2. (a) Highlight any *three* features of BSD License. 5
- (b) Briefly explain *two* features of Academic License. 2
3. (a) Which two licenses permit commercial use of the Open Source Software ? 3
- (b) List *two* disadvantages of open source software. 2
4. (a) Define the term "warranty of merchantability". 3
- (b) What do you understand by the term Open Source ? 2
5. (a) How is LGPL different from GPL ? 3
- (b) What does the term "You" mean in Apache License ? 2
6. (a) Differentiate between Contributor and Licensor. 2
- (b) What does Academic License state about Jurisdiction, Venue and Governing Law ? 3