

**Dr. Babasaheb Ambedkar Open University**

Term End Examination January-2015

<b>Course</b>	: BCA(NEW)	<b>Numerical Code: 0065</b>
<b>Subject Code</b>	: BCA(NEW) - 101	<b>Numerical Code: 0671</b>
<b>Subject</b>	: Fundamental of Computers & Information Technology	
	<b>Total Marks</b>	: 70
<b>Date</b>	: 20/01/2015	<b>Time</b> : 11.00 to 02.00

**Section A (30)****Answer the following (any three)**

1. Explain block diagram of computer in detail.
2. List the names of programming language and explain types of software.
3. Enlist pointing device and explain mouse in detail.
4. Explain network operating system.
5. Explain presentation and graphics program.

**Section B (20)****Answer the following (any four)**

1. Give application of computers
2. Explain web camera in detail.
3. What is voice recognition system?
4. Write functions performed by DBMS.
5. Write short note on utilities.
6. Explain analog computers.

**Section C****(A) Choose correct answer. (10)**

1. \_\_\_\_\_ is 1<sup>st</sup> computer programmer.  
a. Lady sada      b. Lady Bada      c. Lady Ada      d. Lady Dada
2. Which is not an advantage of Computer?  
a. High Speed      b. Low Accuracy      c. Portability      d. Large storage capacity
3. Which is high level language?  
a. BASIC      b. FORTRAN      c. COBOL      d. All of above
4. Minicomputer is\_\_\_\_\_.  
a. Digital      b. Analog      c. A & B both      d. None of these
5. Which is input device?  
a. Barcode Reader      b. Digital Camera      c. Light pen      d. None of these
6. \_\_\_\_\_ is used to maintain hardcopy of documents.  
a. Printers      b. Scanners      c. Digital Camera      d. HDTV
7. Process Management is  
a. Execute application      b. Application Wait for data  
c. Process waits while other processrun      d. All of above.
8. \_\_\_\_\_ allows you to access network connected to network.  
a. Network OS      b. Multiple OS      c. timesharing OS      d. Realtime OS

- 9 \_\_\_\_\_ is the kind of software design to help analyse, configure, optimize and maintain computer.  
a. utility      b. Software      c. both a & b      d. None of these
- 10 OMR is \_\_\_\_\_.  
a. Object Mask recovery      b. Optical Mark Recognition  
c. Option Might read      d. None of these

**(B) Give Answer in One/Two Sentence.**

**(10)**

1. Define Computer.
  2. Write full name of CRT.
  3. TFT is Thick Film Transformation. (True/False)
  4. What is the function of barcode reader?
  5. Which are two types of monitor?
  6. Impact printers can only print low resolution graphics, with limited color, Performance, quality and low speed.(True/False)
  7. Write Names of type of mouse.
  8. Write size and weight of laptops.
  9. Write names of Types of software.
  10. Analog signal is \_\_\_\_\_ signal.
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<b>Subject Code</b>	: BCA(NEW) - 102	<b>Numerical Code: 0672</b>
<b>Subject</b>	: Operating System	<b>Total Marks : 70</b>
<b>Date</b>	: 21/01/2015	<b>Time : 11.00 to 02.00</b>

**Section A (30)****Answer the following (any three)**

1. Explain different types of operating system.
2. Explain GUI,
3. Write a brief note on Windows 2000 product family.
4. Explain Kernel in detail.
5. Explain microprocessor cooling system.

**Section B (20)****Answer the following (any four)**

1. Explain multi user versus single user.
2. Explain threads in operating system
3. Explain features of windows 7.
4. Discuss the universal plug and play terms
5. Explain the steps for calling the working ISDN number.
6. Write a note on RAM failures.

**Section C****(A) Choose correct answer. (10)**

- 1 A context switch involves storing the \_\_\_\_\_ state and retrieving the \_\_\_\_\_ state  
a) old, new    b) new, old    c) new, new    d) old, old
- 2 When end users start any application it runs in \_\_\_\_ mode in windows.  
a) kernel mode    b) user mode    c) external mode    d) system mode
- 3 The \_\_\_\_\_ is the main foundation of your computer system.  
a) Operating system    b) hardware    c) software    d) None.
- 4 \_\_\_\_\_ is used to improve the performance of the I/O system.  
a) Object Manager    b) I/O manager    c) caching    d) manager
- 5 \_\_\_\_\_ is one of the features of windows XP.  
a) Automatic update    b) Fax Support    c) Compressed folders    d) All of the above
- 6 The minimum hardware requirement for windows -XP include at least \_\_\_\_\_MB of RAM.  
a) 32    b) 132    c) 64    d) 16
- 7 System software can be \_\_\_\_\_.  
a) System Development software    b) System support software  
c) both a and b    d) None
- 8 \_\_\_\_\_ is a large size computer system, typically with a separate central processing unit.  
a) Laptop    b) Palmtop    c) tablet    d) Main Frame
- 9 \_\_\_\_\_ is a collection of data field treated as unit.  
a) Record    b) file    c) folder    d) Operating system

- 10 \_\_\_\_\_ is a systematic maintenance which should be scheduled periodically  
a) corrective                      b) preventive                      c) Accretive                      d) None of above

**(B) Do as directed.**

**(10)**

1. Mac Operating System is developed by\_\_\_\_\_.
  2. Write four default libraries of Windows.
  3. Give full form of Open GL and CLT.
  4. Linux is a free or open source operating system. (True/False)
  5. Windows 7 ultimate is the most popular version sold in USA among home users.  
(True/False)
  6. Power manager deals with power events and notifies affected driver with special IRPs.  
(True/False)
  7. A local video loopback test makes a video call to another conference attendee.(True/False)
  8. Define "troubleshooting".
  9. Give advantages of SATA hard drive over UATA hard drive.
  10. \_\_\_\_\_ provides uninterrupted power supply from associated battery in the event of power failure.
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Term End Examination January-2015

<b>Course</b>	: BCA(NEW)	<b>Numerical Code: 0065</b>
<b>Subject Code</b>	: BCA(NEW) - 103	<b>Numerical Code: 0673</b>
<b>Subject</b>	: C-Programming	<b>Total Marks : 70</b>
<b>Date</b>	: 22/01/2015	<b>Time : 11.00 to 02.00</b>

**Section A (30)****Answer the following (any three)**

1. What is operator? Explain different types of operator.
2. Explain two dimensional array and write a program to perform sum of two 3\*3 matrices.
3. Explain declaration and initialization of pointers.
4. Explain structure in C and write a program to print the Names, Averages and teams of three cricketers using structure "CRICKET".
5. Explain while and DO while Loops in detail.

**Section B (20)****Answer the following (any four)**

1. What are constants? Explain integer constants and character constants.
2. Explain if-else statement and write a program to find maximum of two numbers.
3. Explain GOTO statement.
4. List various string handling functions. Explain strcat () and strlen (string) functions
5. Explain function recursion with example.
6. Explain fread0 and fwrite0 functions in file handling.

**Section C****(A) Choose correct answer. (10)**

- 1 C was originally developed by \_\_\_\_\_.  
a) Hallman    b) Dennis Ritchie    c) John Mathews    d) Strow Stroop
- 2 \_\_\_\_\_ Shortcut key is used for compiling a C program in turbo C.  
a) Ctrl + F9    b) Alt + F9    c) F2    d) Alt + F2
- 3 Int i=5. Here T1= (i<0)?0:100 prints \_\_\_\_\_.  
a) 5    b) 0    c) 100    d) NUL
- 4 Using \_\_\_\_\_ function we can enter a single character with help of standard input device.  
a) Puchar ()    b) getchar ()    c) printf ()    d) scanf ()
- 5 The for loop is \_\_\_\_\_ controller loop structure.  
a) Entry    b) Exit    c) Previous    d) Next
- 6 The \_\_\_\_\_ statement is used to terminate loops or to exit a switch.  
a) Continue    b) break    c) go to    d) done
- 7 All functions except those of type \_\_\_\_\_ returns a value.  
a) Int    b) private    c) float    d) void
- 8 Variables which are alive and active throughout the entire program are known as \_\_\_\_\_ variables.  
a) Automatic    b) External    c) Local    d) Default

- 9 Suppose v is a variable that represents some particular data item then its address location can be determined by expression \_\_\_\_\_ v.  
a) &                      b) \*                      c) &&                      d) \*\*
- 10 \_\_\_\_\_ Function is used to read a character from file that is opened in read mode ("r").  
a) fputc ()              b) fPuts ()              c) fgetc ()              d) fgets ()

**(B) Answer the following.**

**(10)**

1. Which are two bitwise shift operators?
  2. The \_\_\_\_\_ math function is used to find square root.
  3. Define switch statement.
  4. Write syntax of conditional operator.
  5. Int a[ ]; is valid array syntax.(True/False)
  6. Every statement in C should end with ,(comma ) operator,(True/False)
  7. Every program should have at least one user defined function.(True./False)
  8. Every string should end with \0'.(True/False)
  9. As soon as the system encounters a character data it is automatically converted into integer value.{ True/False)
  10. \_\_\_\_\_ Function is used to take input from user.
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Term End Examination January-2015

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<b>Subject Code</b>	: BCA(NEW) - 104	<b>Numerical Code: 0675</b>
<b>Subject</b>	: Introduction to Internet technology	<b>Total Marks : 70</b>
<b>Date</b>	: 23/01/2015	<b>Time : 11.00 to 02.00</b>

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**Section A (30)****Answer the following (any three)**

1. Explain different network topologies.
2. Explain Big-8 News Group.
3. Explain packet switching in detail.
4. What is difference between e-mail, online chat and instant messaging?
5. Explain DHTML in detail.

**Section B (20)****Answer the following (any four)**

1. What is World Wide Web?
2. Explain concept of Extranet.
3. Give advantages of cable modem connection.
4. Write short note on domain name system.
5. Explain form and form attributes in HTML.
6. What is B2B and B2C in E-commerce?

**Section C****(A) Multiple Choice Questions. (10)**

- 1 VPN stands for \_\_\_\_\_.  
a) Virtual private network      b) Virtual Public Network  
c) Volatile Private Network      d) Volatile private Network
- 2 IP address consists of \_\_\_\_\_ bits.  
a) 8      b) 12      c) 32      d) 84
- 3 \_\_\_\_\_ Class IP address are used for multicast group.  
a) Class A      b) Class B      c) Class C      d) Class D
- 4 The first part of URL defines the \_\_\_\_\_ protocol.  
a) Network      b) Application      c) Transport      d) Session
- 5 IPV6 IP address is typically written in hexadecimal separated by \_\_\_\_\_.  
a) Colon      b) semicolon      c) dot      d) hash
- 6 \_\_\_\_\_ allows names to be associated with IP address.  
a) DCOM      b) DNS      c) GSM      d) VSAT
- 7 A \_\_\_\_\_ is a program run by a search engine to build a summary of websites content.  
a) www      b) URL      c) algorithm      d) crawler
- 8 \_\_\_\_\_ Tag specifies an unordered lists.  
a) <ol>      b) <li>      c) <ul>      d) <u>
- 9 To include Audio, MIDI and Video elements in web page \_\_\_\_\_ tag is used.  
a) <EMBED>      b) <INCLUDE>      c) <IMG>      d) <VID>

- 10 A collection of frames in a browser window is known as\_\_\_\_\_.  
a) Frame row                      b) frame                      c) frameset                      d) framing

**(B) Answer the following.**

**(10)**

1. Give full form of TCP/IP.
  2. With which two protocols is VPN used?
  3. IP address of Class E are reserved. (True/False)
  4. .biz domains are used for government organizations. (True/False)
  5. Give full form of HTML and HTTP.
  6. JSP developed by Sun microsystem to allow server side development. (True/False)
  7. ATM designed for bursty traffic. (True/False)
  8. \_\_\_\_\_ Tag specifies the background music.
  9. \_\_\_\_\_ is a roadmap of webpage.
  10. Give any two disadvantages of FRAMES.
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<b>Subject Code</b>	: BCA (NEW) – 105	<b>Numerical Code: 0677</b>
<b>Subject</b>	: Introduction to Computer application	<b>Total Marks : 70</b>
<b>Date</b>	: 24/01/2015	<b>Time : 11.00 to 02.00</b>

**Section A (30)****Attempt any Three of the following:**

1. Describe the features of windows and explain various versions of windows.
2. Explain insertion in MS word.
3. Discuss the components of an MS Excel worksheet.
4. Explain Email account feature of MS Outlook Express in details.
5. What is slide transition? Explain it in details.

**Section B (20)****Attempt any Four of the following:**

1. Managing files and folders in windows.
2. Find and Replace feature of MS word.
3. Inserting rows in MS Excel.
4. Slide color scheme of MS PowerPoint.
5. Recycle bin Network Neighbourhood features of Windows.
6. Text alignment feature of MS Word.

**Section C****(A) Attempt the following. (20)**

1. \_\_\_\_\_ is a moving image or pattern that appears on your monitor when you have left your computer idles for a specified limit.  
(A) Screen Saver (B) Wallpaper (C) Icon (D) None of these
2. \_\_\_\_\_ is the long horizontal bar at the bottom of the Desktop.  
[Taskbar/Scrollbar]
3. The \_\_\_\_\_ properties dialogue box allows you to configure your window interface, screen saver, web and settings.  
(A) Display (B) Control Panel (C) Time Zone (D) Font
4. A file can be defined as collection of related information or records.  
[True/False]
5. In MS word, if the letters "OVR" in the Status bar is gray that means you are in the \_\_\_\_\_ mode.  
(A) Edit (B) Overtyping (C) Insert (D) Both b & c
6. \_\_\_\_\_ Feature of MS word is used to correct the grammatical & spelling mistakes of the document content.
7. When the current page of your document is full, the MS word starts a new page automatically, is called \_\_\_\_\_.  
(A) Soft page break (B) Hard page break  
(C) User defined page break (D) None of these
8. Paragraph spacing allows you to indent your paragraph from the left or right margin.  
[True/False]

- 9 In MS word, \_\_\_\_\_ option will allow you to insert your text in the style, which you have selected.  
(A) Symbol (B) WordArt (C) Picture (D) Chart
- 10 You can use different headers and footers on odd and even pages of a document. [True/False]
- 11 The insertion of a column and a row in excel worksheet is called\_\_\_\_\_.
- 12 In MS excel, the cell address consists of the \_\_\_\_\_.  
(A) Column letter (B) Row number (C) Both a & b (D) None of these
- 13 In MS excel, to add two or more numbers, \_\_\_\_\_ function is used.  
(A) SUM() (B) SUMIF() (C) AVERAGE() (D) All
- 14 In MS PowerPoint, \_\_\_\_\_view allows you to see small version of all slides.  
(A) Print (B) Normal (C) Slider Sorter (D) Note
- 15 \_\_\_\_\_ is the short cut key to insert a new slide in a presentation.
- 16 In MS PowerPoint, to end the slide show, either press the Esc key or click the right mouse button and then click-on End. [true/False]
- 17 In MS Outlook Express, the \_\_\_\_\_ feature is used to keep the track of appointments, meetings, seminars and all important dates.  
(A) Tasks (B) Calendar (C) Contacts (D) A & B both
- 18 A Google email account can be accessed via MS Outlook Express. [True/False]
- 19 In windows, a menu bar is located just above the title bar. [True/False]
- 20 In MS word, \_\_\_\_\_ is the short cut key to make a text as bold.  
(A) Ctrl+b (B) Ctrl+I (C) Ctrl+U (D) None of these
-