

**M J College, BHILAI**  
**Half yearly Examination**  
**Session-2019-2020**

**B. C. A. (Part I/II/III) EXAMINATION**

ENVIRONMENTAL STUDIES AND HUMAN RIGHTS

*Time : Three Hours Maximum Marks : 75*

**Note :** Attempt any *two* parts from each Unit. All questions carry equal marks.

**Note :** All questions are compulsory. Section A is Short answer type and carries 25 marks.

Section B is Essay type and each question carries 10 marks.

**Section A —**

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

- (a) Meaning and definition of Human Rights
- (b) State Human Rights Commission
- (c) Role of Information Technology in Environment
- (d) Value Education
- (e) Wasteland Reclamation
- (f) Landslides
- (g) Solid waste management
- (h) Thermal Pollution
- (i) Decomposer
- (j) Energy flow

**Section B —**

**Unit —I**

2. Write an essay on Forest Resources.

*Or*

Write notes on any *two* of the following :

- (i) Exploitation of minerals
- (ii) Food Problems in India
- (iii) Non-conventional sources of Energy

**Unit —II**

3. Describe the Ecological Succession.

*Or*

Write notes on any *two* of the following :

- (i) Food web and food chain
- (ii) Value of Biodiversity
- (iii) Threats to Biodiversity

**Unit —III**

4. Write an essay on Population Growth in India.

*Or*

Write notes on any *two* of the following :

- (i) Sustainable development
- (ii) Nuclear Pollution
- (iii) Air pollution and Pathological effect of man

**M J College, BHILAI**  
**Half yearly Examination**  
**Session-2019-2020**

**B. C. A. (Part I) EXAMINATION**

**WEB TECHNOLOGY**

Time : **3 Hours**

Maximum Marks : **50**

- 1) What do you understand by Static, Dynamic and Active web page? Explain.
- 2) Explain the following:  
client server computing concepts  
HTTP  
TFTP  
Simple Network Management Protocol
- 3) Write code in HTML and Java script to develop a simple calculator which performs arithmetic operations (Add, Subtraction, Multiplication, and Division).
- 4) Differentiate between Application Server and Web Server
- 5) What is Client-Side scripting language?
- 6) What do you understand by DHTML? Explain.
- 7) Write about lists and their types.
- 8) What is the difference between Hyperlink and Hypermedia?
- 9) Write a note on PHP.
- 10) Create form in HTML/DHTML to accept following information from user and write java script to ensure that these fields are not blank:
  - Student Name
  - User Name
  - Password

OR

- 11) Explain Objects, Methods, Events and Functions in java script.

**M J College, BHILAI**  
**Half yearly Examination**  
**Session-2018-2019**

**B. C. A. (Part I) EXAMINATION WEB TECHNOLOGY**

Time : **3 Hours**

Maximum marks: **50**

1. What do you understand by Static, Dynamic and Active web page? Explain.

2 . Explain the following:

- a) client server computing concepts
- b) HTTP c) TFTP
- d) Simple Network Management Protocol

1. HTML stands for

- A) Hyper Text Markup language B) Hyper Text Markup line
- C) Hyper Test Markup language D) None of the above

2. DHTML stands for

- A) Dynamic Hyper Test Markup language B) Dynamic Hyper Text Markup line
- C) Dynamic Hyper Text Markup language D) None of the above

3. PHP stands for

- A) Hypertext Preprocessor B) Pre Hypertext processor
- C) Pre Hyper Processor D) None of the above

4. PHP runs on different platforms (Windows, Linux, Unix, etc.)

- A) True B) False

5. SMTP stands for

- A) Simple Mail Transfer Protocol B) Sample Mail Transfer Protocol
- C) Simple Markup Transfer Protocol D) None of the above

6. WWW developed by

- A) Tim Burners Lee B) Steve Jobs C) Bill Gate D) Charles Babbage

7. Founder of Facebook

- A) Steve jobs B) Tim Burners Lee C) Mark Zuckerberg D) None of the above

8. URL stands for

- A) Universal Resource locator B) Uniform Resource Locator
- C) Universal Resource location D) None of the above

9. Who developed the Whatsapp?

- A) Jan Koum B) Mark Zuckerberg C) Steve Jobs D) None of the above

10. WWW stands for

- A) World Wide World B) World Wide Web C) World Web Wide D) World Web World

**M J College, BHILAI**  
**Half yearly Examination**  
**Session-2017-18**

**B. C. A. (Part I) EXAMINATION WEB TECHNOLOGY**

Time : **3 Hours**

Maximum marks: **50**

1. Why is web 2.0 more popular ? How does a static website differ from a dynamic website ? Explain with the help of an example.
2. What is meant by Document Object Model in the context of HTML ? Write a program using Java script and HTML that changes a paragraph showing "Wel come" to "Welcome to the University"
3. What are the purpose of GET and POST methods of HTTP ? Explain the differences between with the help of an example.
4. What is a cookie in the context of HTTP / Web Programming ? Why are they needed ? Explain with the help of an example.
5. Explain the process of inclusion of a file into a JSP page ? Explain with the help of an example. State the advantages of doing it.
6. Explain the use of class selector and id selector in CSS and HTML with the help of an example.
7. What is WML ? Design WML program to display the profile of an Employee having attributes : Employee ID, Employee Name, Employee Age and Employee Designation.
8. Differentiate between the following :
  - (i) Client and Server Architecture
  - (ii) Static Webpage and Dynamic Webpage
9. WWW developed by  
A) Tim Burners Lee B) Steve Jobs C) Bill Gate D) Charles Babbage
10. Founder of Facebook  
A) Steve jobs B) Tim Burners Lee C) Mark Zuckerberg D) None of the above.

**M J College, BHILAI**  
**Half yearly Examination**  
**Session-2016-17**

**B. C. A. (Part I) EXAMINATION WEB TECHNOLOGY**

Time : **3 Hours**

Maximum marks: **50**

1. Differentiate between the following : (i) Static web pages and Dynamic webpages  
(ii) 2-Tier architecture and 3-Tier architecture.
2. What is an exception in the context of JSP ? How are the exceptions handled using JSP ?  
Explain with the help of an example.
3. Explain the features of the following Web technologies :
  - (i) Blogging
  - (ii) Rich Internet Applications
  - (iii) Mashups
4. Explain the Box Model of HTML with the help of a diagram. Why is this model needed ?
5. What are the advantages of using CSS for an HTML document ? How can you link an external style sheet to an HTML document ?
6. Explain how you can change the background colour of a web page using a style sheet.
7. Create an XML document that stores the name (first name and last name), enrolment number and at least one phone number of a student.
8. Create such information for at least two students.
9. Create the DTD that validates the XML document created by you.  
OR
10. Explain the concept of Document Object Model (DOM) with the help of an example.
11. What is a cookie in the context of JSP ?  
OR
12. Why is it needed ? Explain how a cookie can be set with the help of an example.

**M J College, BHILAI**  
**Half yearly Examination**  
**Session-2015-16**  
**B. C. A. (Part I) EXAMINATION WEB TECHNOLOGY**

Time : **3 Hours**

Maximum marks: **50**

1. What is CSS ? Create a sample code to illustrate the external stylesheet for your web page.
2. Explain the difference between JSP Scriptlets, JSP Tags and JSP Directive.
3. Design an HTML form which should allow to enter your personal data. (Hint : make use of text field, password field, check boxes, radio and submit button)
4. Why do we need XML ? Also list the advantages of XML over HTML.
5. What are cookies ? Write a program to create cookies to store User ID and password of the client on his/her machine.
6. Write a JSP/Servlet program that takes your name and programme code as input and displays it on a web page.
7. Explain the two attributes of page directive which are included in exception handling
8. in JSP page.
9. What is WML ? How will you use Timer in WML ?
10. DHTML stands for  
A) Dynamic Hyper Text Markup language B) Dynamic Hyper Text Markup line  
C) Dynamic Hyper Text Markup language D) None of the above
- 11.. PHP stands for  
A) Hypertext Preprocessor B) Pre Hypertext processor  
C) Pre Hyper Processor D) None of the above
- 12.. PHP runs on different platforms (Windows, Linux, Unix, etc.)  
A) True B) False
13. SMTP stands for  
A) Simple Mail Transfer Protocol B) Sample Mail Transfer Protocol  
C) Simple Markup Transfer Protocol D) None of the above
- 14.. WWW developed by  
A) Tim Burners Lee B) Steve Jobs C) Bill Gate D) Charles Babbage
15. Founder of Facebook  
A) Steve jobs B) Tim Burners Lee C) Mark Zuckerberg D) None of the above

**M J College, BHILAI**  
**Half yearly Examination Session-2015-16**  
**B. C. A. (Part I) EXAMINATION Visual basic**

Time : **3 Hours**

Maximum marks: **50**

1. Explain all looping statements in visual basic with example.
  2. Explain the data types available in Visual Basic.
  3. Explain properties of the Text Box, Label, Rich Text Box, and Picture Box and with examples.
  4. Explain the procedure to create menu through menu editor in Visual Basic.  
What do you mean by ADO?
  5. Explain MsgBoxf() and Inputlsoxt().
  - 6.. Differentiate between label and text box.
  4. List the difference between list box and combo box.
  5. What are the advantages of OLEDB?
  6. What do you mean by array? Give examples.
  7. Write a brief note on forms available in visual basic.
  8. What is the difference between option and checkbox?
- 9 . 1. "dim" is a .....
- (a) data type (b) keyword
  - (c) operator (d) symbol
2. Visual Basic forms are identified by a:
- (a) ".frm" suffix (b) ".mak" suffix
  - (c) ".for" suffix (d) A special icon
3. Which is not an integer data type ?
- (a) Single (b) Byte
  - (c) Short (d) None of the above
4. In Visual Basic, a variable name cannot be more than ..... characters.
- (a) 450 (b) 255
  - (c) 355 (d) 500
5. Visual Basic maintains a project file with the extension .....
- (a) .frm (b) .vbp
  - (c) .vbs (d) .cls



**M J College, BHILAI**  
**Half yearly Examination Session-2016-17**  
**B. C. A. (Part I) EXAMINATION Visual basic**

Time : **3 Hours**

Maximum marks: **50**

1. A 1. "dim" is a .....  
(a) data type (b) keyword (c) operator (d) symbol
  
  2. Visual Basic forms are identified by a:  
(a) ".frm" suffix (b) ".mak" suffix (c) ".for" suffix (d) A special icon
  
  3. Which is not an integer data type ?  
(a) Single (b) Byte (c) Short (d) None of the above
  
  4. In Visual Basic, a variable name cannot be more than ..... characters.  
(a) 450 (b) 255 (c) 355 (d) 500
  5. Visual Basic maintains a project file with the extension .....  
(a) .frm (b) .vbp (c) .vbs (d) .cls
  
  6. .... is a set of sequentially indexed elements having the same type of data.  
(a) Loop (b) Array (c) Variables (d) Objects
  
  7. Which is not a main component of the Visual Studio IDE?  
(a) Solution Explorer (b) Tool Box (c) Start Menu (d) Designer Window
  
  8. Which is not true about forms and controls in Visual Basic?  
(a) They are pre-built  
(b) They are graphical objects  
(c) New versions of the classes must be created with each project  
(d) Buttons can be created with the drag and drop method
- B . List the difference between list box and combo box.  
C. What are the advantages of OLEDB?  
D. What do you mean by array? Give examples.  
E.. Write a brief note on forms available in visual basic.  
F. What is the difference between option and checkbox?

**M J College, BHILAI**  
**Half yearly Examination Session-2017-18**  
**B. C. A. (Part I) EXAMINATION Visual basic**

Time : 3 Hours

Maximum marks: 50

**A. Write briefly :**

1. What do you mean by Library Functions? Name any five.
2. b. How does Check Box differ from Option Button?
3. Write down general syntax for Select-Case statement.
4. Differentiate between Module(s) and Procedure(s).
5. How can a Popup Menu be created in VB?
6. What is the function of Break Point in error handling?
7. What are the benefits of COM?
8. Name and explain different types of Data Reports in VB.  
List different types of Locking Mechanism(s) in ADO Object Model.
9. What do you mean by ActiveX Control?

OR

10. Name and explain, in detail, different types of Controls available in VB.

**M J College, BHILAI**  
**Half yearly Examination**  
**Session-2018-19 B. C. A. (Part I) EXAMINATION**  
**Visual basic**

Time : **3 Hours**

Maximum marks: **50**

1. Differentiate between Module(s) and Procedure(s).
2. How can a Popup Menu be created in VB?
3. What is the function of Break Point in error handling?
4. What are the benefits of COM?
5. Name and explain different types of Data Reports in VB.  
List different types of Locking Mechanism(s) in ADO Object Model.
6. What do you mean by ActiveX Control?
- 7 1. Which is not a main component of the Visual Studio IDE?  
(a) Solution Explorer (b) Tool Box (c) Start Menu (d) Designer Window
2. Which is not true about forms and controls in Visual Basic?  
(a) They are pre-built  
(b) They are graphical objects  
(c) New versions of the classes must be created with each project  
(d) Buttons can be created with the drag and drop method
3. Visual Basic is a(n)..... .  
(a) Procedural programming language (b) Object-oriented programming language  
(c) Hyperlink programming language (d) Sequential programming language
4. ADO stands for .....  
(a) Active Data Objects (b) Access Data Objects  
(c) Access Data Online (d) None of the above

**M J College, BHILAI**  
**Half yearly Examination**  
**Session-2019-20 B. C. A. (Part I) EXAMINATION**  
**Visual basic**

Time : **3 Hours**

Maximum marks: **50**

**A. Explain input Box and Text Box**

- 1) Define Active X control in VB
- 2) Discuss data types in VB? Discuss DLL?.
- 3) What is event driven programming? Advantages of ADO.
- 4) Define Arrays in VB ? Explain various types of errors in VB?
- 5) Define Class Modules in VB? Difference between constant and variable
- 6) Explain various control structure in VB.
- 7) Define dialog boxes and differentiate between Modal and modeless.
- 8) Explain in detail the concept of OLE
- 9) Write down the steps involved in creation menus in VB
- 10) How VB manages Databases with suitable examples.
- 11) Explain various types of data reports in VB with suitable example.

**M J College, BHILAI**  
**Half yearly Examination Session-2019-20**  
**B. C. A. (Part I) EXAMINATION PC SOFTWARE AND MULTIMEDIA**

Time : **3 Hours**

Maximum marks: **50**

1. Explain any four functions available in Excel.
2. Explain the steps in Mail Merge in word.
3. Explain the steps to create Bar graph in Excel.
  
4. What are the views available in power point?
5. Explain the steps to add a Table to a slide.
6. Explain the steps to create a slide presentation with sound effect.

OR

7. Explain the terms desktop, shortcut icon, taskbar and start menu.
8. Create a PowerPoint presentation on academic activities of your study centre (minimum five slides) which should include activities related to theory and practical classes, viva-voce exams, or any other similar activities.
  - All the slides should have common design.
  - Write Speaker note for each slide.
  - There should be sound effect while moving from one slide to another slide.
  - Add a video to the last slide which can be run in full screen option
9. Explain the following :
  - Recycle Bin
  - Notepad
10. Create a workbook containing students' name, enrolment no., TEE (T), TEE (P) and assignment marks.

Max. marks of TEE (T) — 60 marks

Max. marks of TEE (P) — 15 marks

Max. marks of Assignment — 25 marks

**M J College, BHILAI**  
**Half yearly Examination Session-2018-19**  
**B. C. A. (Part I) EXAMINATION PC SOFTWARE AND MULTIMEDIA**

Time : **3 Hours**

Maximum marks: **50**

1. Define windows explores?
2. What is toolbar? List and explain, any two Types of Toolbar in windows.
3. A Describe any one option available in the main menu bar of MS-Word.
4. Write s short note on Notepad
5. Explain the terms desktop, shortcut icon, taskbar and start menu.
6. Explain the following :  
    Recycle Bin  
    Notepad
7. Discuss table and charts in MS Word.
8. Explain the steps in Mail Merge in word.
9. Explain the features of power point.
10. Explain the steps to add a Table to a slide.

OR

11. Create a PowerPoint presentation on academic activities of your study centre (minimum five slides) which should include activities related to theory and practical classes, viva-voce exams, or any other similar activities.
  - All the slides should have common design.
  - Write Speaker note for each slide.
  - There should be sound effect while moving from one slide to another slide.
  - Add a video to the last slide which can be run in full screen option

**M J College, BHILAI**  
**Half yearly Examination Session-2017-18**  
**B. C. A. (Part I) EXAMINATION PC SOFTWARE AND MULTIMEDIA**

Time : **3 Hours**

Maximum marks: **50**

1. Define windows explores?
2. What is toolbar? List and explain, any two Types of Toolbar in windows.
3. Explain the following :
  - Using thesaurus
  - Macros
4. Explain any four functions available in Excel.
5. Explain the steps in Mail Merge in word.
6. Explain the steps to create Bar graph in Excel.
  
7. Explain the features of power point.
8. Explain the steps to add a Table to a slide.  
OR
9. Explain the steps to create a slide presentation with sound effect.
10. The students have to score a minimum 40% in each component of the subject to pass the subject. For scoring A, a student has to get 75% and above. For scoring B, a student has to score between 60% and 75%. For scoring C, a student has to get between 40% and 60%. Below 40% students will be graded as D.

There should be at least 10 entries (records). Apply formulae for total percentage grading and status (Pass/Fail). Show the percentage of passing students in different grades (A, B, C, D) a using pie chart.

OR

11. What is database in Excel ? How to create college database in MS Excel ? Implement any three database functions in college database.

**M J College, BHILAI**  
**Half yearly Examination Session-2016-17**  
**B. C. A. (Part I) EXAMINATION PC SOFTWARE AND MULTIMEDIA**

Time : **3 Hours**

Maximum marks: **50**

1. Describe any one option available in the main menu bar of MS-Word.
  2. Explain sorting in Excel.
    1. Explain any two charts in Excel.
    2. Explain any four functions available in Excel.
  3. What do you understand by MS PowerPoint ? Discuss animations and linking.
  4. Explain different categories of slide show in MS PowerPoint
  5. Do the following tasks in Outlook :
    - (a) Create a contact list of five persons which should have name, email ID and profession of each person.
    - (b) Add a new contact in the contact list.
    - (c) Create an appointment to your calendar for 9:00 AM — 11:00 AM, 26th October, Monday, titled "Discussion on Practical Examination"
  8. Write a shell script to print number of users who currently logged-in, current date and time.
  9. Execute the following Linux commands :
    - (i) chmod
    - (ii) cmp dir
  10. What is toolbar? List and explain, any two Types of Toolbar in windows.
- OR**
11. Explain the following :
    - Recycle Bin
    - Notepad



**M J College, BHILAI**  
**Half yearly Examination Session-2015-16**

**B. C. A. (Part I) EXAMINATION PC SOFTWARE AND  
MULTIMEDIA**

Time : **3 Hours**

Maximum marks: **50**

1. Define windows explores?
2. What is toolbar? List and explain, any two Types of Toolbar in windows.
3. Explain the following :  
    Recycle Bin  
    Notepad
4. What is database in Excel ? How to create college database in MS Excel ?  
    Implement any three database functions in college database.
5. What are the views available in power point?
6. Explain the steps to add a Table to a slide.
7. Explain the steps to create a slide presentation with sound effect.
8. OR
9. Explain the terms desktop, shortcut icon, taskbar and start menu.
10. Create a workbook containing students' name, enrolment no., TEE (T),  
    TEE (P) and assignment marks.

Max. marks of TEE (T) — 60 marks

Max. marks of TEE (P) — 15 marks

Max. marks of Assignment — 25 marks

11. Execute the following Linux commands :

(i) chmod (ii) cmp dir

11. What is a Web browser ? Write the sequence of activities that take place when you request for a webpage, till it is displayed in your browser window.

**M J College, BHILAI**  
**Half yearly Examination Session-2015-16**

**B. C. A. (Part I) EXAMINATION COMPUTER FUNDAMENTAL**

Time : **3 Hours**

Maximum marks: **50**

1. What do you mean by Memory ? Explain primary memory and secondary memory in brief.
2. What are the different types of computer ? Explain
3. Explain the characteristics and capabilities of computer system.
4. Write short notes on the following :  
SIMM  
DIMM
5. Data storage and retrieval systems  
or
6. Explain the Booting process of DOS.
7. Differentiate among compiler, assembler and interpreter. Also give example of each and explain.
8. Write short notes on the following :  
Booting process  
Types of reboot  
Types of operating system  
DOS commands
9. Draw a block diagram of a computer and explain each component of computer.
10. What do you mean by input devices and output devices of a computer ?  
Explain each type of device in brief.  
OR
11. What are the differences between RAM and ROM ? Explain the various types of RAM and ROM.

**M J College, BHILAI**  
**Half yearly Examination Session-2016-17**

**B. C. A. (Part I) EXAMINATION COMPUTER FUNDAMENTAL**

Time : **3 Hours**

Maximum marks: **50**

1. What is input device ? Explain keyboard, Mouse, Scanner, Light pen and Voice input device.
  
  2. What do you mean by primary memory ? Differentiate between RAM and ROM.
  3. Write the difference between impact and non-impact printers.
  4. Explain the Booting process of DOS.
  5. Give Syntax of the following DOS commands :
    - (i) PATH
    - (ii) TREE
    - (iii) DISKCOPY
    - (iv) SORT
    - (v) PROMPT
  6. Convert the following decimal numbers to binary and hexadecimal numbers.
    - (i) 75(ii) 0.125
  7. List any four different types of software that are required for programming. Explain the purpose of each one of these.
  8. Given the three storage devices (i) Hard disk (ii) Pen drive (iii) Magnetic tape, what will be their primary uses ? Give advantage and disadvantage of each of these secondary memories.
  9. What is an operating system ? Explain the five main services provided by the operating system.
  10. Convert the following hexadecimal number to equivalent binary and decimal :
    - (i) (51)<sub>16</sub>
    - (ii) (DA)<sub>16</sub>
- OR
11. Compare and contrast the following :
    - (i) SRAM versus DRAM
    - (ii) SIMM versus DIMM
    - (iii) ROM versus PROM
    - (iv) CD-ROM versus Pen - drive.

**M J College ,BHILAI**  
**Half yearly Examination Session-2017-18**  
**B. C. A. (Part I) EXAMINATION COMPUTER FUNDAMENTAL**

Time : **3 Hours**

Maximum marks: **50**

1. What do you mean by primary memory ? Differentiate between RAM and ROM.
2. Write the difference between impact and non-impact printers.
3. Explain the Booting process of DOS.
4. Give Syntax of the following DOS commands :

(vi) PATH

(vii) TREE

(viii) DISKCOPY

(ix) SORT

(x) PROMPT

5. Compare and contrast the following :

(i) SRAM versus DRAM

(ii) SIMM versus DIMM

(iii) ROM versus PROM

(iv) CD-ROM versus Pen - drive.

6. Convert the following decimal numbers to binary and hexadecimal numbers.

(i) 75 (ii) 0.125

7. Convert the following hexadecimal number to equivalent binary and decimal

(i) (51)<sub>16</sub>

(ii) (DA)<sub>16</sub>

8. How do you calculate access time on a magnetic disk ? Explain with the help of a suitable example.

1. What are the basic components of a computer as defined in Von Neumann architecture ? What is the use of each of this component ?
2. Explain the role of a translator program. How is a compiler different than an assembler ?

OR

3. What is the purpose of Central Processing Unit in a Computer ? What are the components of a CPU ? What effect did Integrated circuit technology had on the CPU ? Explain your answer.

**M J College, BHILAI**  
**Half yearly Examination Session-2018-19**

**B. C. A. (Part I) EXAMINATION COMPUTER FUNDAMENTAL**

Time : **3 Hours**

Maximum marks: **50**

1. What are the different types of computer ? Explain
  2. Explain the characteristics and capabilities of computer system.
  3. Write short notes on the following :
    - SIMM
    - DIMM
  4. Data storage and retrieval systems.
  5. Explain the Booting process of DOS.
  6. Differentiate among compiler, assembler and interpreter. Also give example of each and explain.
  7. Write short notes on the following :
    - Booting process
    - Types of reboot
    - Types of operating system
    - DOS commands
  8. Explain the role and features of :
    - (i) Processor internal memories
    - (ii) Cache memory
    - (iii) Primary memory
    - (iv) Secondary memory
  9. Do the following conversions :
    - (i) (382)<sub>10</sub> to Binary
    - (ii) (79)<sub>10</sub> to Hexadecimal
    - (iii) (110101.01)<sub>2</sub> to decimal
    - (iv) (38A)<sub>16</sub> to Binary
  10. Convert the following decimal numbers to equivalent binary and hexadecimal numbers :
    - (i) 225
    - (ii) 62.5
- OR
11. Convert the following hexadecimal numbers to binary and decimal numbers.
    - (i) (AB)<sub>Hex</sub>
    - (ii) (22F)<sub>Hex</sub>

**M J College, BHILAI**  
**Half yearly Examination Session-2019-20**  
**B. C. A. (Part I) EXAMINATION COMPUTER FUNDAMENTAL**

Time : **3 Hours**

Maximum marks: **50**

1. Explain the Booting process of DOS.
2. Differentiate among compiler, assembler and interpreter. Also give example of each and explain.
3. Write short notes on the following :
  - Booting process
  - Types of reboot
  - Types of operating system
  - DOS commands
4. Explain the role and features of :
  - (i) Processor internal memories
  - (ii) Cache memory
  - (iii) Primary memory
  - (iv) Secondary memory
5. Do the following conversions :
  - (i)  $(382)_{10}$  to Binary
  - (ii)  $(79)_{10}$  to Hexadecimal
  - (iii)  $(110101.01)_2$  to decimal
  - (iv)  $(38A)_{16}$  to Binary
6. Convert the following decimal numbers to equivalent binary and hexadecimal numbers :
  - (i) 225
  - (ii) 62.5
7. Explain the characteristics and capabilities of computer system.
8. Write short notes on the following :
  - SIMM
  - DIMM
9. Data storage and retrieval systems.
10. Convert the following hexadecimal numbers to binary and decimal numbers.
  - (i)  $(AB)_{Hex}$  (ii)  $(22F)_{Hex}$

OR
11. What is an operating system ? Explain the five main services provided by the operating System.

**M J College, BHILAI**  
**Half yearly Examination Session-2019-20**  
**B. C. A. (Part I) EXAMINATION**  
**PROGRAMMING IN C**

Time : **3 Hours**

Maximum marks: **50**

- 1) How to declare a constant float variable PI and initialize it with the value 3.14.
- 2) What is the use of % id format?
- 3) What do you mean by Precedence of operators? Explain with example.
- 4) What are logical and relational operators in C?
- 5) Write a C program to read two integers as input from the user and print their average. If the inputs are 2 and 3 then the output should be 2.50.
- 6) Write a C program to read the principal , rate of interest and time as input and calculate the simple interest using the formula in-  $retest = (principal * rate * time) / 100$ .
- 7) What are the different kind so flop sin C?
- 8) Give the syntax of if-else statement?.
- 9) Explain the importance of break statement in switch case using example program.
- 10) Write a C program to read three integers from the user and print the value of the largest of them.

**OR**

Write a C program to read an integer and print whether that integer is positive , negative or zero.

**M J College, BHILAI**  
**Half yearly Examination Session-2018-19**  
**B. C. A. (Part I) EXAMINATION**  
**PROGRAMMING IN C**

Time : **3 Hours**

Maximum marks: **50**

- 1) What is loop ? Explain while and do- while loop with example.?
- 2) Explain displaying and reading variables.
- 3) What is operator ? Explain any four types of operator used in C.
- 4) Explain basic Input/ Output functions with their respective syntax and example.
- 5) What do you mean by identifier?
- 6) Give the syntax of if-else statement?.
- 7) Give the syntax of switch statement in C.
- 8) Explain the importance of break statement in switch case using example program.
- 9) Write a C program to read three integers from the user and print the value of the largest of them.

**OR**

- 10) Write a C program to read an integer and print whether that integer is positive , negative or zero.
- 11) What are the advantages of data file over other data types



**M J College ,BHILAI**  
**Half yearly Examination Session-2017-18**  
**B. C. A. (Part I) EXAMINATION**  
**PROGRAMMING IN C**

Time : **3 Hours**

Maximum marks: **50**

- 1) Write a C program to read the principal , rate of interest and time as input and calculate the simple interest using the formula in-  $retest = (\text{principal} * \text{rate} * \text{time}) / 100$ .
  - 2) What are the different kind so flop sin C?
  - 3) Give the syntax of if-else statement?.
  - 4) Give the syntax of switch statement i n C.
  - 5) Explain the importance of break statement in switch case using example program.
  - 6) Write a C program to read three integers from the user and print the value of the largest of them.
  - 7) What is loop ? Explain while and do- while loop with example.?
  - 8) Explain displaying and reading variables.
  - 9) What is operator ? Explain any four types of operator used in C.
  - 10) Write a program in C to sort in ascending order integer elements of one-dimensional array
- OR
- 11) Explain array of structures with example.

**M J College, BHILAI**  
**Half yearly Examination Session-2016-17**  
**B. C. A. (Part I) EXAMINATION**  
**PROGRAMMING IN C**

Time : **3 Hours**

Maximum marks: **50**

- 1) What is the Working principle of prefix operators? Give example.
- 2) What is the significance of gets functions?
- 3) What are library functions?
- 4) What are symbolic constants? Give examples.
- 5) What are the naming rules of identifier?
- 6) Differentiate between for and while loop.
- 7) What are the advantages of user-defined functions? What are storage classes?
- 8) List the applications of pointers in C.
- 9) What is dynamic memory allocation?
- 10) What are the advantages of data file over other data types?

OR

- 11) What are the advantages of structures?

**M J College, BHILAI**  
**Half yearly Examination Session-2015-16**  
**B. C. A. (Part I) EXAMINATION**  
**PROGRAMMING IN C**

Time : **3 Hours**

Maximum marks: **50**

- 1) Explain basic data types available in C with the help of example.
- 2) Discuss the various operators available in C with the help of example.
- 3) Write a program to swap two integer numbers without using the temporary variable. Explain the following constants with examples:  
(a) Octal Integer Constants                      (b) Hexadecimal Integer Constants.
- 4) Write a short note on Recursion v/s Iteration.
- 5) Explain the difference between break and continue statements with examples.
- 6) Write a program to find the sum of digits of an integer number entered by the user.
- 7) Explain with example relationship between single dimensional array and pointers.
- 8) Write a program in C to sort in ascending order integer elements of one-dimensional array
- 9) Explain array of structures with example.
- 10) Write a program to create a file and display its contents. Assume suitable data

OR

- 11) Explain with example passing of structure to function.