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**BCAHDL 154/BSAHDL 154**

**Credit Based II Semester B.C.A./B.Sc. (Animation and Visual Effects)  
Degree Examination, May/June 2016  
(New Syllabus) (2015-16 Batch Onwards)  
HINDI LANGUAGE (Group – I) (Paper – II)**

Time : 3 Hours

Max. Marks : 80

I. एक शब्द अथवा एक वाक्य में उत्तर लिखिए :

(5×1=5)

- 1) 'वसंत' एकांकी में स्त्री का नाम क्या है ?
- 2) राजनाथ कहाँ रहते थे ?
- 3) 'एक दिन' एकांकी के रचयिता कौन है ?
- 4) सेक्रेटरी का नाम क्या है ?
- 5) 'रक्त-चन्दन' एकांकी में जहर किसे पिलाया जाता है ?

II. किन्हीं तीन अवतरणों की सप्रसंग व्याख्या कीजिए :

(3×5=15)

- 1) न। उड़ जानेवाली चीजों को प्यार नहीं करना चाहिए। छोड़कर चली जाती है तो दुःख होता है।
- 2) साढे छह तक आराम से आर्येंगे लोग। वक्त की पाबन्दी तो सिर्फ एक आदमी पर है।
- 3) पुरुष की समझ में स्त्री कभी नहीं आती।  
मुझे आप जितना ही अधिक समझना चाहेंगे,  
मैं आपसे उतनी ही दूर होती जाऊंगी।
- 4) हैवान से आदमी नहीं डरता, लेकिन जब इन्सान हैवान बन जाता है तो उससे बस डरा ही जाता है।

III. अ) 'वसंत' एकांकी का सारांश लिखकर विशेषताओं पर प्रकाश डालिए।

10

अथवा

“बहुत बडा सवाल” एकांकी में छिपे व्यंग्य को अपने शब्दों में समझाइए।

आ) पठित एकांकी के आधार पर राजनाथ का चरित्र चित्रण कीजिए।

10

अथवा

'रक्त-चंदन' एकांकी के आधार पर राधाकृष्ण का चरित्र चित्रण कीजिए।

IV. “दौड़” उपन्यास की कथावस्तु को संक्षेप में लिखिए।

10

अथवा

दौड़ उपन्यास के आधार पर 'रेखा' का चरित्र चित्रण कीजिए।

P.T.O.



V. टिप्पणी लिखिए :

अ) शीला ।

अथवा

मालती का पति ।

आ) स्टैला ।

अथवा

राजुल ।

VI. अ) स्टेट बैंक आफ इंडिया में व्यावस्थापक पद के लिए मोहन कुमार के नाम से एक स्ववृत्त तैयार कीजिए ।

आ) निम्नलिखित गद्यांश पढ़कर उस पर आधारित प्रश्नों के उत्तर लिखिए :

(5×1=5)

“ऐतिहासिक नगरी आगरा के निकट सतत प्रवाहिनी नीली-धारावाली यमुना के दाहिने तट पर ताजमहल स्थित है। बादशाह शाहजहाँ ने इसे अपनी बेगम मुमताज की स्मृति में बनवाया था। अपने पति से बेगम ने इस असार संसार से विदा लेते समय निवेदन किया था कि, ‘मेरी मृत्यु होने पर एक ऐसा मकबरा बनवाना जो संसार में सबसे सुन्दर एवं स्थायी हो।’ बादशाह ने अपनी प्राणेश्वरी की अंतिम आकांशा की पूर्ति का भरसक प्रयास किया। इसको उसमें सफलता भी मिली। ताजमहल संसार के सात आश्चर्यों में से एक है। वर्षों के बाद भी वह अपने यथावत् रूप में दर्शकों के मन को मोह रहा है। सौकड़ों कारीगरों एवं मज़दूरों के निरंतर बीस वर्ष के परिश्रम का परिणाम यह ताजमहल है। इसके बनवाने में बाईस करोड़ रुपया खर्च हुआ था।”

प्रश्न :

- 1) ताजमहल किस नगर में स्थित है ?
- 2) ताजमहल को किसने बनवाया ?
- 3) ताजमहल को किसकी अंतिम आकांशा की पूर्ति के लिए बनवाया गया ?
- 4) ताजमहल के निर्माण में कितने वर्ष लगे ।
- 5) ताजमहल को बनवाने में कितने रुपये खर्च हुए ?

VII. किन्हीं दो विषयों पर टिप्पणी लिखिए :

(2×5=10)

- 1) प्रयोजनमूलक हिन्दी ।
- 2) मीडिया और समाज ।
- 3) संचार भाषा और हिन्दी मीडिया ।

Reg. No.

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**BCAHDL 153/BSAHD 153**

**Credit Based Second Semester B.C.A./B.Sc. (Animation and Visual Effects) Degree Examination, May/June 2016  
(2014-15 and Earlier Batches Scheme)  
HINDI LANGUAGE  
(Group – I) (Paper – II)**

Time : 3 Hours

Max. Marks : 80

I. एक शब्द या एक वाक्य में उत्तर लिखिए :

(1×10=10)

- 1) चूडामणि कौन था ?
- 2) राजनाथ की बेटी का नाम क्या है ?
- 3) सीता का हरण किसने किया था ?
- 4) मनीषी के पति का नाम क्या है ?
- 5) 'घोंसले' एकांकी के एकांकीकार कौन है ?
- 6) बुलाकीदास को किराये का कितना पैसा आया था ?
- 7) दादा मूलराज किसे यूनिट बनाना चाहते थे ?
- 8) मोहन का दोस्त कौन था ?
- 9) मंडोदरी सीता से क्या चाहती है ?
- 10) 'सूखी डाली' एकांकी के एकांकीकार कौन है ?

II. किन्हीं दो अवतरणों की सप्रसंग व्याख्या कीजिए :

(2×5=10)

- 1) मेरी विपत्ति की सहायिका देवी तुम धन्य हो ।
- 2) अब आपके पास रुपये आ गये हैं, किराया अदा कीजिए ।
- 3) यों ही हँस रही थी । आओ इधर कुर्सी पर बैठो ।
- 4) परेशान होने की बात नहीं । मुझसे पूछो, चार-चार बार .....

P.T.O.



III. किसी एक प्रश्न का उत्तर लिखिए :

(1×10=10)

- 1) 'राजरानी सीता' एकांकी का सारांश लिखिए।
- 2) 'सूखी डाली' एकांकी का सारांश लिखिए।

IV. किन्हीं दो पर टिप्पणी लिखिए :

(2×5=10)

- 1) रावण
- 2) दादा
- 3) राजनाथ
- 4) मार्तण्ड।

V. किसी एक प्रश्न का उत्तर लिखिए :

(1×10=10)

- 1) 'निंदा रस' निबंध का सारांश लिखिए।
- 2) 'मेरी रुमाल खो गई' निबंध का सार लिखकर विशेषताओं पर प्रकाश डालिए।

VI. किन्हीं दो पर टिप्पणी लिखिए :

(2×5=10)

- 1) लज्जा के कारण
- 2) सभ्यता
- 3) ग्लानी
- 4) रुमाल की खोज।

VII. अ) वाच्य बदलिए :

(4×1=4)

- 1) लडका गाना गाता है।
- 2) बच्चा दूध पीता है।
- 3) मजदूर से काम क्रिया जाता है।
- 4) नौकर से लकड़ी लायी गयी।



आ) किसी एक प्रश्न का उत्तर लिखिए : (1×5=5)

- 1) क्रिया विशेषण की परिभाषा लिखकर उसके भेदों को उदाहरण के साथ स्पष्ट कीजिए।
- 2) प्रत्यय की परिभाषा लिखकर उसके प्रकारों को उदाहरण के साथ समझाइए।

इ) वाक्य शुद्ध कीजिए : (6×1=6)

- 1) केवल आप ही यह काम कर सकते हैं।
- 2) वास्तव में वह लडका होनहार है।
- 3) हम स्वयं ही आपसे मिल लेंगे।
- 4) वह ध्यानपूर्वक से सुनता है।
- 5) अभी ही वह गया था।
- 6) उधर आना मना है।

ई) सरकारी कार्यालयों में हिन्दी अनुष्ठान के उद्देश्य से भारत सरकार के मानव संसाधन मंत्रालय द्वारा एक परिपत्र प्रस्तुत कीजिए। (1×5=5)

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**BCACAC 156**



**Credit Based Second Semester B.C.A. Degree  
Examination, May/June 2016  
(New Syllabus) (2012-13 Batch Onwards)  
BASICS OF NETWORKING  
(Common to all Batches)**

Time : 3 Hours

Max. Marks : 80

**Note : Answer any ten questions from Part – A and any one full question from each Unit of Part – B.**

**PART – A**

1. a) Differentiate bridge and router. (10×2=20)  
b) List any four protocols of application layer.  
c) Distinguish TCP and UDP.  
d) Differentiate half duplex and full duplex.  
e) What is the application of DAC in FDDI ?  
f) Define DCC.  
g) Define attenuation.  
h) Expand ISDN, VSAT.  
i) What is Peer to Peer networking ?  
j) Define clustering.  
k) List major components of user accounts.  
l) Define file sharing and device sharing.

**PART – B**

**Unit – I**

2. a) Define networking. Explain the need for networking.  
b) Explain different layers of OSI reference model.  
c) Discuss how distortion can be prevented on the network. (5+7+3)

P.T.O.



- 3. a) Differentiate single mode and multimode transmission.
- b) Write a note on co-axial cables.
- c) Describe the features and working of ring topology. (5+5+5)

**Unit – II**

- 4. a) Describe the working of Ethernet.
  - b) Explain the features of SMTP with neat diagram.
  - c) Discuss advantages and disadvantages of IMAP. (5+6+4)
- 5. a) Describe the working of FDDI.
  - b) Explain IPX/SPX protocols with neat diagram.
  - c) Explain the features of POP. (5+5+5)

**Unit – III**

- 6. a) Explain the feature of POTS.
  - b) Explain the working of ISDN with neat diagram.
  - c) Explain the concepts of leased line connection in WAN. (5+5+5)
- 7. a) Explain the feature of Microwave.
  - b) What is routing table explain its contents ?
  - c) Write a note on VPN. (5+6+4)

**Unit – IV**

- 8. a) Explain the steps involved in file sharing.
  - b) Explain the working of DSN with suitable diagram.
  - c) List and explain functions of operating system. (6+5+4)
- 9. a) Explain the working of WINS with diagram.
  - b) Explain the steps involved in creation of local user accounts.
  - c) List the important features of NOS. (7+5+3)

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**BCACAC 157**

**Credit Based Second Semester B.C.A. Degree Examination, May/June 2016**  
**(New Syllabus) (2012-13 Batch Onwards)**  
**OBJECT ORIENTED PROGRAMMING USING C++**  
**(Common to all Batches)**

Time : 3 Hours

Max. Marks : 80

**Note :** Answer **any ten** questions from Part – A and **one full** question from **each** Unit of Part – B.

**PART – A**

**(10×2=20)**

1. a) What are tokens ? Name the C++ tokens.
- b) Explain operator overloading with an example.
- c) What is the use of scope resolution operator ?
- d) List any two situations where inline expansion may not work.
- e) What are the uses of function prototyping in C++.
- f) List any two special features of static data members.
- g) What are objects ? How are they created ?
- h) Define constructor. What is default constructor ?
- i) What is const. object? Give an example.
- j) Define an abstract class. Give an example.
- k) What is an operator function ? Give the syntax of an operator function.
- l) What is container class ?

**PART – B**

**Unit – I**

2. a) Explain the structure of C++ program with an example.
- b) Explain different forms of if statements with syntax and example.
- c) What are manipulators ? Illustrate with an example, how do the setw and endl manipulators work. **(5+5+5)**

P.T.O.



3. a) What are identifiers ? What are the rules for naming the identifier that are common to both C and C++ ?  
b) Explain any two special operators in C++.  
c) Explain do-while and for statements with syntax and examples. (5+4+4)

**Unit – II**

4. a) Explain with an example how an object may be used as a function argument.  
b) Explain the different methods for defining the member function of a class with example.  
c) Explain the data types supported by C++. Give example for each. (5+5+4)
5. a) With an example explain the concept of an Array of objects.  
b) What is friend function ? What are the merits and demerits of using friend function ?  
c) Explain how objects are passed as arguments to the function with an example (5+5+4)

**Unit – III**

6. a) Write a program to accept two strings and using operator overloading perform the following :  
i) Concatenation of two strings  
ii) Comparison of two strings alphabetically.  
b) Explain parameterized constructors with example.  
c) Explain how one class type is converted to another class type. (5+5+4)
7. a) What is constructor overloading ? Explain with code example ?  
b) With syntax and example, explain how to implement Operator overloading.  
c) What is a destructor ? Explain with an example. (5+5+4)

**Unit – IV**

8. a) Explain multiple and multilevel inheritance with example for each.  
b) What is this pointer ? Explain its importance in C++ with an example.  
c) What is virtual function ? Explain pure virtual functions with an example. (5+4+4)
9. a) Write a note on compile time and run time Polymorphism.  
b) Explain visibility of private, protected and public members in different modes of inheritance.  
c) Explain order of execution of constructors in inheritance with an example. (4+6+4)

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**BCACAC 158**

**Credit Based Second Semester B.C.A. Degree Examination, May/June 2016**  
**(New Syllabus) (2012-13 Batch Onwards)**  
**DATABASE CONCEPTS AND ORACLE**  
**(Common to all batches)**

Time : 3 Hours

Max. Marks : 80

**Note :** Answer **any ten** questions from Part – A and **any one full** question from **each** Unit in Part – B.

**PART – A**

**(10×2=20)**

1. a) Define the terms Data Base and DBMS.
- b) Differentiate logical and physical data independence.
- c) What is DDL ? Why is it used ?
- d) Differentiate spanned and unspanned records.
- e) Define 1NF.
- f) What is degree of a relation ?
- g) How to insert a record in SQL ? Give an example.
- h) What is a dual table in SQL ?
- i) Differentiate char and varchar in SQL.
- j) Differentiate stored procedures and functions.
- k) Name the four cursor attributes.
- l) Write any two uses of database triggers.

**PART – B**

**Unit – I**

2. a) Explain the different types of languages used in DBMS.
- b) Write any four advantages of DBMS.
- c) Explain any five symbols used in ER diagrams along with their meaning. **(6+4+5)**
3. a) Describe the Three-Scheme architecture of DBMS with a neat diagram.
- b) Explain any two DBMS interfaces.
- c) List and explain different types of attributes. **(6+4+5)**

**P.T.O.**

**Unit – II**

4. a) Explain 2NF with example.  
b) Explain SELECT and PROJECT operations with a suitable examples.  
c) Write a note on Internal Hashing. (6+5+4)
5. a) What is RAID technology ? How it helps to improve disk access performance ?  
b) Explain any five operations on files.  
c) Write a note on heap file organization. (6+5+4)

**Unit – III**

6. a) Explain the UPDATE command with an example.  
b) List and explain any five data types used in oracle.  
c) Explain GROUP BY and ORDER BY clauses in SQL with an example to each. (4+5+6)
7. a) Consider the table EMPLOYEE(ENO,NAME,DEPT,DESIGNATION,SALARY).  
Write the following queries :  
i) Retrieve the name of all the employees working for HR dept  
ii) Delete the records belong to Accounts dept  
iii) Add a column PHONE of data type Number with size 10  
iv) Increase the salary of all the employees by 20%  
v) List the employee details according to DEPT.  
b) Explain how to insert data into a table from another table with suitable example.  
c) Explain any four aggregate functions with example. (5+6+4)

**Unit – IV**

8. a) Explain the PL/SQL program structure with an example.  
b) Explain the advantages of using database procedures.  
c) What is a Trigger ? Explain the types of trigger. (5+5+4)
9. a) Explain the steps involved in declaring an explicit cursor and manipulating data in the active data set.  
b) Explain any two looping statements in PL/SQL with example.  
c) With an example explain user defined exception handling in PL/SQL. (6+5+4)

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**BCACAC 156**

**Credit Based Second Semester B.C.A. Degree  
Examination, May/June 2016  
(New Syllabus) (2012-13 Batch Onwards)  
BASICS OF NETWORKING  
(Common to all Batches)**

Time : 3 Hours

Max. Marks : 80

**Note :** Answer any ten questions from Part – A and any one full question from each Unit of Part – B.

**PART – A**

1. a) Differentiate bridge and router. (10×2=20)  
b) List any four protocols of application layer.  
c) Distinguish TCP and UDP.  
d) Differentiate half duplex and full duplex.  
e) What is the application of DAC in FDDI ?  
f) Define DCC.  
g) Define attenuation.  
h) Expand ISDN, VSAT.  
i) What is Peer to Peer networking ?  
j) Define clustering.  
k) List major components of user accounts.  
l) Define file sharing and device sharing.

**PART – B**

**Unit – I**

2. a) Define networking. Explain the need for networking.  
b) Explain different layers of OSI reference model.  
c) Discuss how distortion can be prevented on the network. (5+7+3)

P.T.O.



3. a) Differentiate single mode and multimode transmission.
- b) Write a note on co-axial cables.
- c) Describe the features and working of ring topology. (5+5+5)

**Unit – II**

4. a) Describe the working of Ethernet.
  - b) Explain the features of SMTP with neat diagram.
  - c) Discuss advantages and disadvantages of IMAP. (5+6+4)
5. a) Describe the working of FDDI.
  - b) Explain IPX/SPX protocols with neat diagram.
  - c) Explain the features of POP. (5+5+5)

**Unit – III**

6. a) Explain the feature of POTS.
  - b) Explain the working of ISDN with neat diagram.
  - c) Explain the concepts of leased line connection in WAN. (5+5+5)
7. a) Explain the feature of Microwave.
  - b) What is routing table explain its contents ?
  - c) Write a note on VPN. (5+6+4)

**Unit – IV**

8. a) Explain the steps involved in file sharing.
  - b) Explain the working of DSN with suitable diagram.
  - c) List and explain functions of operating system. (6+5+4)
9. a) Explain the working of WINS with diagram.
  - b) Explain the steps involved in creation of local user accounts.
  - c) List the important features of NOS. (7+5+3)

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**BCACAC 157**

**Credit Based Second Semester B.C.A. Degree Examination, May/June 2016  
(New Syllabus) (2012-13 Batch Onwards)**

**OBJECT ORIENTED PROGRAMMING USING C++  
(Common to all Batches)**

Time : 3 Hours

Max. Marks : 80

**Note : Answer any ten questions from Part – A and one full question from each Unit of Part – B.**

**PART – A**

**(10×2=20)**

1. a) What are tokens ? Name the C++ tokens.
- b) Explain operator overloading with an example.
- c) What is the use of scope resolution operator ?
- d) List any two situations where inline expansion may not work.
- e) What are the uses of function prototyping in C++.
- f) List any two special features of static data members.
- g) What are objects ? How are they created ?
- h) Define constructor. What is default constructor ?
- i) What is const. object? Give an example.
- j) Define an abstract class. Give an example.
- k) What is an operator function ? Give the syntax of an operator function.
- l) What is container class ?

**PART – B**

**Unit – I**

2. a) Explain the structure of C++ program with an example.
- b) Explain different forms of if statements with syntax and example.
- c) What are manipulators ? Illustrate with an example, how do the setw and endl manipulators work. **(5+5+5)**

**P.T.O.**



3. a) What are identifiers ? What are the rules for naming the identifier that are common to both C and C++ ?  
b) Explain any two special operators in C++.  
c) Explain do-while and for statements with syntax and examples. (5+4+6)

#### Unit – II

4. a) Explain with an example how an object may be used as a function argument.  
b) Explain the different methods for defining the member function of a class with example  
c) Explain the data types supported by C++. Give example for each. (5+5+5)
5. a) With an example explain the concept of an Array of objects.  
b) What is friend function ? What are the merits and demerits of using friend function ?  
c) Explain how objects are passed as arguments to the function with an example (5+5+)

#### Unit – III

6. a) Write a program to accept two strings and using operator overloading perform the following :  
i) Concatenation of two strings  
ii) Comparison of two strings alphabetically.  
b) Explain parameterized constructors with example.  
c) Explain how one class type is converted to another class type. (5+5)
7. a) What is constructor overloading ? Explain with code example ?  
b) With syntax and example, explain how to implement Operator overloading.  
c) What is a destructor ? Explain with an example. (5+5)

#### Unit – IV

8. a) Explain multiple and multilevel inheritance with example for each.  
b) What is this pointer ? Explain its importance in C++ with an example.  
c) What is virtual function ? Explain pure virtual functions with an example. (5+)
9. a) Write a note on compile time and run time Polymorphism.  
b) Explain visibility of private, protected and public members in different modes of inheritance.  
c) Explain order of execution of constructors in inheritance with an example. (4+)

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**BCACAC 158**

**Credit Based Second Semester B.C.A. Degree Examination, May/June 2016**  
**(New Syllabus) (2012-13 Batch Onwards)**  
**DATABASE CONCEPTS AND ORACLE**  
**(Common to all batches)**

Time : 3 Hours

Max. Marks : 80

**Note : Answer any ten questions from Part – A and any one full question from each Unit in Part – B.**

**PART – A**

**(10×2=20)**

1. a) Define the terms Data Base and DBMS.
- b) Differentiate logical and physical data independence.
- c) What is DDL ? Why is it used ?
- d) Differentiate spanned and unspanned records.
- e) Define 1NF.
- f) What is degree of a relation ?
- g) How to insert a record in SQL ? Give an example.
- h) What is a dual table in SQL ?
- i) Differentiate char and varchar in SQL.
- j) Differentiate stored procedures and functions.
- k) Name the four cursor attributes.
- l) Write any two uses of database triggers.

**PART – B**

**Unit – I**

2. a) Explain the different types of languages used in DBMS.
- b) Write any four advantages of DBMS.
- c) Explain any five symbols used in ER diagrams along with their meaning. **(6+4+5)**
3. a) Describe the Three-Scheme architecture of DBMS with a neat diagram.
- b) Explain any two DBMS interfaces.
- c) List and explain different types of attributes. **(6+4+5)**

**P.T.O.**





## Unit – II

4. a) Explain 2NF with example.  
b) Explain SELECT and PROJECT operations with a suitable examples.  
c) Write a note on Internal Hashing. (6+5+4)
5. a) What is RAID technology ? How it helps to improve disk access performance ?  
b) Explain any five operations on files.  
c) Write a note on heap file organization. (6+5+4)

## Unit – III

6. a) Explain the UPDATE command with an example.  
b) List and explain any five data types used in oracle.  
c) Explain GROUP BY and ORDER BY clauses in SQL with an example to each. (4+5+6)
7. a) Consider the table EMPLOYEE(ENO,NAME,DEPT,DESIGNATION,SALARY). Write the following queries :  
i) Retrieve the name of all the employees working for HR dept  
ii) Delete the records belong to Accounts dept  
iii) Add a column PHONE of data type Number with size 10  
iv) Increase the salary of all the employees by 20%  
v) List the employee details according to DEPT.  
b) Explain how to insert data into a table from another table with suitable example.  
c) Explain any four aggregate functions with example. (5+6+)

## Unit – IV

8. a) Explain the PL/SQL program structure with an example.  
b) Explain the advantages of using database procedures.  
c) What is a Trigger ? Explain the types of trigger. (5+5)
9. a) Explain the steps involved in declaring an explicit cursor and manipulating data in the active data set.  
b) Explain any two looping statements in PL/SQL with example.  
c) With an example explain user defined exception handling in PL/SQL. (6+5)