

Roll No.

(13)

7118

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2BCA3

Bachelor of Computer Application (Second Semester)

Examination Dec., 2010/Jan. 2011

DATABASE MANAGEMENT SYSTEMS

अवधि/Duration : 3 घंटे/Hours]

[पूर्णांक/Max. Marks : 100

[न्यूनतम उत्तीर्णांक/Min. Pass Marks : 40

निर्देश :

1. प्रश्न-पत्र **पाँच** इकाइयों में विभाजित है । प्रत्येक इकाई में आन्तरिक विकल्प दिया गया है ।
2. प्रत्येक इकाई से **एक** प्रश्न का उत्तर दीजिए । इस प्रकार कुल **पाँच** प्रश्नों के उत्तर दीजिए ।
3. **सभी** प्रश्नों के लिए समान अंक नियत हैं ।
4. जहाँ आवश्यकता हो वहाँ उपयुक्त डाटा माना जा सकता है ।
5. अनुवाद में विसंगति होने पर अंग्रेजी स्वरूप को सही माना जाए।
6. प्रश्न-पत्र में परीक्षार्थी निर्धारित स्थान पर अपना रोल नम्बर अंकित करे ।

Instructions :

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2. Attempt *one* question from each Unit. Thus attempt *five* questions in all.
3. *All* questions carry equal marks.
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P.T.O.

इकाई I

(Unit I)

1. (a) DBMS क्या है ? File सिस्टम की अपेक्षा DBMS के विभिन्न लाभ क्या-क्या हैं ? 10
What is DBMS ? What are various advantages of DBMS over file system ?
- (b) डाटा मॉडल क्या है ? विभिन्न प्रकार के डाटा मॉडल्स को समझाइये । 10
What is data model ? Explain different data models.
2. (a) मैपिंग constraints क्या हैं ? उनके प्रकारों को समझाइये । 10
What are mapping constraints ? Explain their types.
- (b) डाटाबेस की भाषाओं से आप क्या समझते हैं ? विभिन्न प्रकार की डाटाबेस भाषाओं को समझाइये । 10
What do you mean by database languages ? Explain different database languages.

इकाई II

(Unit II)

3. (a) Key क्या है ? विभिन्न keys को समझाइये । 10
What is key ? Explain various keys.
- (b) Entity integrity तथा referential integrity के बीच विभिन्न प्रकार के अंतर क्या-क्या हैं ? 10
What are the various differences between entity integrity and referential integrity ?
4. (a) Normalization क्या है ? 2NF को उदाहरण सहित समझाइये । 10
What is normalization ? Explain 2NF with example.

- (b) Attribute को परिभाषित कीजिये । विभिन्न प्रकार के attributes को समझाइये । 10
Define an attribute ? Explain different types of attributes.

इकाई III

(Unit III)

5. (a) Relational एलजेब्रा क्या है ? Relational Algebra के आधारभूत ऑपरेशन्स को समझाइये । 10

What is Relational Algebra ? Explain fundamental operations of relational algebra.

- (b) DBA क्या है ? DBA के फंक्शन्स क्या हैं ? 10

What is DBA ? What are the functions of DBA ?

6. SQL के कोई 10 कमाण्डों को उदाहरण सहित लिखिये । 2×10=20

Write any 10 SQL commands with examples.

इकाई IV

(Unit IV)

7. (a) Transaction क्या है ? ACID विशेषताएँ क्या हैं ? समझाइये । 10

What is transaction ? What are ACID properties ? Explain.

- (b) File ऑर्गेनाइजेशन क्या है ? File के विभिन्न ऑपरेशन्स लिखिये । 10

What is file organization ? Write different operations on file.

8. (a) RAID क्या है ? RAID के लेवेल्स को समझाइये । 10

What is RAID ? Explain levels of RAID.

- (b) स्टोरेज Hierarchy को समझाइये । 10

Explain Storage Hierarchy.

इकाई V

(Unit V)

9. संक्षिप्त टिप्पणी लिखिये :

4×5=20

Write short notes on :

(i) ODBC

(ii) DNS

(iii) Parallel system

(iv) Distributed system.

10. (a) Centralized system क्या है ? Centralized system के लाभों को लिखिये । 10

What is centralized system ? Write the advantages of centralized system.

(b) DBMS Architecture को समझाइये ।

10

Explain DBMS Architecture.

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2BCA2

Bachelor of Computer Application
(Second Semester) Examination, Dec. 2010/Jan. 2011
ADV. PROG. in C WITH LINUX

अवधि/Duration : 3 घंटे/Hours]

[पूर्णांक/Max. Marks : 100

[न्यूनतम उत्तीर्णांक/Min. Pass Marks : 40

निर्देश :

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2. प्रत्येक इकाई से एक प्रश्न का उत्तर दीजिए। इस प्रकार कुल पाँच प्रश्नों के उत्तर दीजिए।
3. सभी प्रश्नों के लिए समान अंक नियत हैं।
4. जहाँ आवश्यकता हो वहाँ उपयुक्त डाटा माना जा सकता है।
5. अनुवाद में विसंगति होने पर अंग्रेजी स्वरूप को सही माना जाय।
6. प्रश्नपत्र पर परीक्षार्थी निर्धारित स्थान पर अपना रोल नम्बर अंकित करे।

Instructions :

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2. Attempt *one* question from each Unit. Thus attempt *five* questions in all.
3. *All* questions carry equal marks.
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6. Candidate should write his/her Roll Number at the prescribed space on the question paper.

P.T.O.

इकाई I

(Unit I)

1. (a) ANSJ 'C' एवं Turbo 'C' compiler के बीच में comparison दीजिए।
Give the comparison between ANSI 'C' and Turbo 'C' compiler. 5
 - (b) GCC में C के program को आप कैसे compile करते हैं ?
How do you compile C program using GCC ? 5
 - (c) Strings को pointers के द्वारा कैसे handle किया जाता है ? उदाहरण दीजिए।
How do you handle the strings through pointers ? Give example. 10
2. (a) Array एवं Pointer के बीच उदाहरण सहित अंतर बताइये।
What is the difference between Array and Pointers ? Explain with example. 7
 - (b) DMA के functions को समझाइये।
Explain the functions of DMA. 7
 - (c) Structure pointer क्या है ?
What is Structure pointer ? 6

इकाई II

(Unit II)

3. (a) Existing file को पढ़ने के लिए एवं उसमें उपस्थित सभी Characters, spaces, tabs और new lines को count करने हेतु प्रोग्राम लिखिए।
Write a program to read an existing file and count how many characters, spaces, tabs and new lines are present. 14
- (b) Text file एवं Binary file क्या हैं ?
What are Text and Binary files ? 6

4. (a) एक File के contents को दूसरी file में copy करने हेतु प्रोग्राम लिखिए।
Write a program to copy the contents of one file to another file. 12
- (b) file opening mode कितनी तरह के होते हैं ?
What are different file opening modes ? 8

इकाई III

(Unit III)

5. (a) Macro definition किसे कहते हैं ? Macro with argument का example दीजिए।
What is called Macro definition ? Give an example of Macro with argument. 15
- (b) 'C' preprocessors के features लिखिए।
Write the features of 'C' preprocessor. 5
6. (a) Linking एवं loading को explain कीजिए।
Expalin linking and loading. 10
- (b) # if, # elif एवं # undef directives के उपयोग को समझाइए।
Explain the use of # if, # elif and # undef directives. 10

इकाई IV

(Unit IV)

7. (a) 'C' में graphics programming करने के लिए graphics mode को कैसे initialize करते हैं ?
How do you initialize graphics mode in 'C' for graphics programming ? 10

(b) Rectangle बनाने एवं उसे किसी color से fill करने के लिए प्रोग्राम लिखिए।

Write a program to draw a rectangle and fill it with any color. 10

8. (a) Video adapter का क्या उपयोग है तथा कितने तरह के Video adaptor आप जानते हैं ?

What is the use of video adapter and how many types of video adaptor do you know ? 10

(b) Graphics mode में Text को आप कैसे display करेंगे ? 'C' program के साथ explain कीजिए।

How do you display Text in graphics mode ? Explain with 'C' program. 10

इकाई V

(Unit V)

9. (a) ROM-BIOS routine का उपयोग क्या है ? यह किस तरह कार्य करता है ?

What is the use of ROM-BIOS routine ? How does it work ? 10

(b) 'C' programming में int 86 का क्या function है ?

What is the int 86 function in 'C' programming ? 10

10. (a) Keyboard एवं Mouse service को कौनसा function support करता है ?

Which function supports keyboard and mouse service ? 10

(b) Intdos() के functions क्या हैं ?

What are the functions of Intdos(). 10

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2BCA5

Bachelor of Computer Application
(Second Semester) Examination, Dec. 2010/Jan. 2011
COMMUNICATIVE ENGLISH-II

Duration : 3 Hours]

[Max. Marks : 100

[Min. Pass Marks : 40

Instructions :

1. The Question Paper is divided in *five* units. Each unit carries an internal choice.
2. Attempt *one* question from each unit. Thus attempt *five* questions in all.
3. *All* questions carry equal marks.
4. Candidate should write his/her Roll Number at the prescribed space on the question paper.

Unit I

1. Attempt the following questions as directed :

(a) Write *five* countable nouns and use them in sentences of your own. 10

Or

Write *five* uncountable nouns and use them in sentences of your own.

P.T.O.

(b) Write *three* forms of the verbs given below and use all the three forms of only *one* verb in sentences of your own : 10

(i) fly

(ii) draw

(iii) get

(iv) write

(v) swim

Or

Combine the following sentences with appropriate linking words :

(i) She did not go to her college. She was ill.

(ii) Nirala was a poet. He was a fiction writer.

(iii) She is intelligent. She is very weak in health.

(iv) You can score good marks. You work hard.

(v) Sachin is a great cricketer. He is very humble.

Unit II

2. (a) Change the degree of the following sentences as directed (any five) : 10

(i) Geeta is the tallest girl in the class. (Positive)

(ii) Salim is not so tall as Rahim. (Comparative)

(iii) George is more intelligent than John. (Positive)

(iv) Sorabji was stronger than Rustamji. (Positive)

(v) No one was so brave as Rani of Jhansi in the first war of independence in 1857 in India. (Superlative)

(vi) Dara Singh was the best wrestler of free style in the world. (Positive)

(b) Fill in the blanks with appropriate adverbs (any five) : 10

(i) I think the problem between the terrorists and the government will.....be solved. (Negative time adverb)

(ii) Lata has sung the song very..... (adverb of manner)

(iii) Roshan has been working very.....to get good position in the examination. (adverb of manner)

(iv) The incident took place a week ago but the news appeared in the newspapers very..... (adverb of time)

(v) You should put off your shoes.....before you enter the temple. (adverb of place)

(vi) This is not an old story. The event has taken place..... (adverb of time)

Unit III

3. (a) Write antonyms of the following words : 5

(i) strong

(ii) poverty

- (iii) ugly
- (iv) polite
- (v) foolish

Or

Write synonyms of the following words :

- (i) humble
- (ii) path
- (iii) permit
- (iv) mistake
- (v) respect

(b) Use the following pairs of words in sentences of your own : 5

- (i) practice—practise
- (ii) delete—dilute
- (iii) meat—meet
- (iv) greet—great
- (v) reel—real

Or

Use the following words as nouns in sentences of your own :

- (i) walk
- (ii) rule
- (iii) interview

- (iv) question
- (v) talk
- (c) Correct the spelling of the following mis-spelt words : 5
- (i) courege
- (ii) crismas
- (iii) turnament
- (iv) langwage
- (v) tekhnical

Or

Supply the missing letter/letters in the following words :

- (i) pre.....ch
- (ii) bel.....ef
- (iii)onest
- (iv) vi.....lence
- (v) acc.....nt
- (d) Rewrite the following sentences using the appropriate verb forms : 5
- (i) He was a great painter but he has.....India. (leave)
- (ii) He is a good swimmer, and he is still.....in the pool. (swim)
- (iii) I.....the breakfast for my sister, she.....it andto school. (prepare/eat/go)

(iv) He has been.....as a prize winner. (choose)

(v) She has.....this house last year and she.....in it.
(buy/live)

Unit IV

4. (a) How will you develop the ability of questioning ? Write with examples in about 50 words. 10

Or

What is the significance of the body language ? Write in 50 words.

- (b) Write a technical report in about 100 words about the water problem of your town. 10

Or

Compose messages through e-mails for your friends about their success as journalists.

Unit V

5. (a) What does Dr. C.V. Raman mean by imaginary elixir of life, the divine Amrita ? Write in about 100 words his views based on his essay. 10

Or

Why does the poet Walt Whitman call Lincoln as 'Captain, dear father' ? Write in about 100 words discussing the main theme of the poem 'O Captain ! My Captain' !

(b) Answer the following questions in *one* or *two* sentences each
(any *five*) :

10

- (i) How does Science play an important part in everyday life ?
- (ii) What was the earliest form of speech ?
- (iii) What did the doctor advise Sue to save the life of Johnsy ?
- (iv) What were the difficulties before Ramanujan in going to England ?
- (v) How did J.C. Bose save the large tree from dying during trans-plantation ?
- (vi) What do the words 'woods' and 'promises' indicate in the poem "Stopping by Woods On A Snowy Evening" ?

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2BCA4

Bachelor of Computer Application
(Second Semester) Examination, Dec. 2010/Jan. 2011
PRINCIPLES OF MANAGEMENT

अवधि/Duration : 3 घंटे/Hours]

[पूर्णांक/Max. Marks : 100

[न्यूनतम उत्तीर्णांक/Min. Pass Marks : 40

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P.T.O.

इकाई I

(Unit I)

1. प्रबंधन से आप क्या समझते हैं ? प्रबंधन के विभिन्न कार्यों को भी समझाइये।

Define Management. Also explain the different functions of Management ? 20

अथवा

(Or)

2. निम्नलिखित में से किन्हीं दो पर संक्षिप्त टिप्पणी लिखिए :

- (अ) व्यवसाय के व्यावसायिक दायित्व
- (ब) विकेन्द्रीकरण
- (स) व्यावसायिक वातावरण।

Write short notes on any two of the following :

- (a) Professional Responsibilities of Business
- (b) Decentralisation
- (c) Business Environment.

इकाई II

(Unit II)

3. निर्णयन से आप क्या समझते हैं ? निर्णयन की प्रक्रिया में शामिल होने वाले पदों को भी समझाइये।

What do you understand by Decision-making ? Also explain the steps involved in Decision-making Process. 20

अथवा

(Or)

4. निम्नलिखित में से किन्हीं दो पर संक्षिप्त टिप्पणी लिखिए :

- (अ) रिपोर्ट के प्रकार
- (ब) रणनीति निर्माण
- (स) सूचना एवं उसके उपयोग।

Write short notes on any *two* of the following :

- (a) Types of Reports
- (b) Strategy formulation
- (c) Information and its uses.

इकाई III

(Unit III)

5. कार्य विश्लेषण से आप क्या समझते हैं ? कार्य विश्लेषण की विधियों को भी समझाइये।

What do you understand by Job Analysis ? Also explain the methods of Job Analysis.

20

अथवा

(Or)

6. निम्नलिखित में से किन्हीं दो पर संक्षिप्त टिप्पणी लिखिए :

- (अ) मानव संसाधन प्रबंधन
- (ब) पी. ई. आर. टी. (पर्ट) एवं सी. पी. एम.
- (स) प्रबंधन सूचना प्रणाली।

Write short notes on any *two* of the following :

- (a) Human Resource Management
- (b) PERT and CPM
- (c) Management Information System.

इकाई IV

(Unit IV)

7. नेतृत्व से आप क्या समझते हैं ? नेतृत्व के किसी एक सिद्धांत को भी समझाइये।

What do you understand by Leadership ? Also explain any *one* theory of leadership.

20

अथवा

(Or)

8. निम्नलिखित में से किन्हीं दो पर संक्षिप्त टिप्पणी लिखिए :

- (अ) अभिप्रेरणा
- (ब) प्रस्तुति कौशल
- (स) प्रशिक्षण।

Write short notes on any *two* of the following :

- (a) Motivation
- (b) Presentation skills
- (c) Training.

इकाई V

(Unit V)

9. समय प्रबंधन से आप क्या समझते हैं ? समय प्रबंधन की विभिन्न तकनीकों को भी समझाइये।

What do you understand by Time Management ? Also explain the different techniques of Time Management.

20

अथवा

(Or)

10. निम्नलिखित में से किन्हीं दो पर संक्षिप्त टिप्पणी लिखिए :

(अ) उद्यमिता

(ब) ई. डी. पी. प्रशिक्षण

(स) समय का महत्व।

Write short notes on any *two* of the following :

(a) Entrepreneurship

(b) EDP Training

(c) Importance of Time.