TDC Even Semester Exam., 2019

BVOC (INFORMATION TECHNOLOGY)

(2nd Semester)

Course No. : BVOC–GE–201

(Communicative English–II)

Full Marks : 70
Pass Marks : 28

Time : 3 hours

The figures in the margin indicate full marks for the questions

UNIT—I

1. *(a)* Attempt a short introduction to English grammar highlighting the role and significance of grammar in written and spoken English. 10

Or

(b) Write an elaborate note on the use of tenses in English.

2. Write a short note on any *one* of the following (with suitable examples) : 7

(a) Parts of speech

(b) Article

(c) Preposition

UNIT—II

3. (a) What are synonyms and what are their uses? Explain with ten examples. 10

Or

(b) What are the functions of a verb? Write a note with illustrative examples of at least ten English verbs.

4. Write a short note on any *one* of the following : 8

(a) Thematic vocabulary

(b) Vocabulary at workplace

(c) Formation of adjectives

UNIT—III

5. (a) Write a summary of the following passage, with a suitable title : 10

Blessings on him that invented sleep ! For, sleep is the greatest blessing in itself. It wraps a man all round like a cloak. It is a delicious moment certainly—that of being well nestled in bed, and feeling that you shall drop

gently to sleep. The good is to come, not passed ; the limits have been just tired enough to render the remaining in one position delightful. The labour of the day is done. A gentle failure of the perceptions comes creeping over one ; the spirit of consciousness disengages itself more and more, in slow degrees like a mother detaching her hands from that of her sleeping child. The mind seems to have a balmy lid closing over it, like the eye ; it is closing, it is more closing—it is closed.

Or

(b) Write your curriculum vitae in a presentable get-up.

6. Write a note on the way of presentation at any of the following real-life situations : 8

(a) At the hotel

(b) At the university

(c) At the bus stand

UNIT—IV

(Internal Assessment as per Syllabus)

7. (a) Write a role-play on an imaginary situation. 10

(c) Describe in detail some communicative tasks that resemble real-life activities in actual situations.

8. Write a short note on any *one* of the following :

(a) Simulated classroom activity

(b) Pair and ground activities

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TDC Even Semester Exam., 2019

BVOC (INFORMATION TECHNOLOGY)

(2nd Semester)

Course No. : BVOC-GE-202

(Programming in C)

Full Marks : 70
Pass Marks : 28

Time : 3 hours

The figures in the margin indicate full marks for the questions

Answer **four** questions, selecting **one** from each Unit

UNIT—I

1. *(a)* Write down the features of procedure oriented programming. 4

   (b) Write down the history of C. 5

   (c) What is token? Explain different types of takens used in C language. 2+6=8

2. *(a)* What are control statements? Explain different types of control statements. 1+5=6

   (b) Write a C program to find the greatest number among three numbers. 7

(c) Write down the difference between : 2+2=4

(i) Break and exit function

(ii) While and do-while loop

UNIT—II

3. (a) What is an integer array? Write a C code to read and print integer array of size 10. 2+7=9

(b) Write a C program to sort N elements using nested loop. 8

4. (a) Explain different types of string handling functions [strlen ( ), strcat( ), strcpy ( ), strcmp ( )]. 8

(b) Write a C program to accept a string and display the reverse of that string. 6

(c) Write down the difference between character constant and string constant. 3

UNIT—III

5. (a) What is pointer? Write down the advantages of using pointer. 2+4=6

(b) What is indirection operator? How is indirection operator used to access the variable? Give example. 2+3=5

(c) What is array of pointer? Explain with example. 7

6. (a) Define the following : 2×4=8

(i) Function proto type declaration

(ii) Actual argument and formal argument

(iii) Function call

(iv) Function body

(b) What are call by value and call by reference? Explain with example. 3½+3½=7

(c) Explain : 3

void fun (void);

UNIT—IV

7. (a) Explain the difference between structure and union. 5

(b) Define the following : 2×4=8

(i) Structure tag

(ii) Period operator

(iii) Structure element

(iv) Structure variable

(c) Write a C program to read and print student information (roll, name, course). 5

8. (a) How are files created in C? Give syntax. Also mention some file mode parameters. 3+3=6

(b) Write down the purpose of the following file handling functions : 1+2+2+2=7

(i) fseek( )

(ii) getc( ) and putc( )

(iii) getw( ) and putw( )

(iv) fread( ) and fwrite( )

(c) Write a C program to create a file and write some data into it. 5

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TDC Even Semester Exam., 2019

BVOC (INFORMATION TECHNOLOGY)

(2nd Semester)

Course No. : BVOC-GE-203

(Computer Network)

Full Marks : 70
Pass Marks : 28

Time : 3 hours

The figures in the margin indicate full marks for the questions

Answer **four** questions, taking **one** from each Unit

UNIT—I

1. Write short notes on the following : 3+3+3+3+3+2=17

(a) Data Rate Limits

(b) Nyquist Bit Rate

(c) Shannon Capacity

(d) Serial Transmission

(e) Parallel Transmission

(f) Line Coding

2. Define network. Explain different connection types usually used in computer networks. What do you mean by Network Topology? Describe the different Network Topologies with diagram. 1+5+2+9=17

UNIT—II

3. Define circuit switching and packet switching with examples. What are the key differences between circuit switching and packet switching? 6+11=17

4. Define and write their pros and cons of the following : 4+5+4+4=17

(a) Connectionless packet switching

(b) Connection-oriented packet switching

(c) Dial-up service

(d) Digital subscription line (DSL) service

UNIT—III

5. *(a)* What do you mean by error? What are the different types of errors? Explain. 1+2+6=9

(b) What is error detection? How error correction differs from error detection? Explain the different types of error detection techniques. 1+2+6=9

6. *(a)* What do you mean by Random Access Protocol? Describe different categories of Random Access Protocol. 2+7=9

(b) Define the following : 9

(i) Repeater

(ii) Hub

(iii) Bridge

(iv) Switch

(v) Router

(vi) Gateway

UNIT—IV

7. *(a)* Define classfull and classless IP addressing. Explain the differences between classfull and classless IP addressing. 4+5=9

(b) Write the short notes with advantages and disadvantages of the following : 9

(i) Subneting

(ii) Superneting

8. *(a)* What is routing algorithm? Explain distance vector and link state routing algorithn.

(b) Write short notes on : 3+3+

(i) DNS Protocols

(ii) HTTP

(iii) FTP

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