CP–8763

Sub. Code
41

B.Sc. DEGREE EXAMINATION, APRIL 2018

Fourth Semester

Computer Science

EMPLOYABILITY SKILLS

(2016 onwards)

Time : 3 Hours Maximum : 75 Marks

Part A (10 × 2 = 20)

Answer **all** questions.

1. Write one expression that can be used. when you are not able to hear the other speaker on the telephone properly.

2. Mention any one interview technique.

3. Mention any one difference between the format of a formal letter and that of an informal letter.

4. What is the usual length of a resume?

5. What is the topic sentence?

6. How would you inform your employer in Mysore of your sudden sickness and inability to attend a meeting with him through a telegram?

7. Mention any two structural differences between the oral composition and written composition.

8. Mention any two effective ways of beginning a piece of composition.

9. Give two examples for positive gestures.

10. What is Body Language

Part B (5 × 5 = 25)

Answer **all** questions.

11. (a) Give a description of your favourite aunt.

Or

(b) Write a paragraph on 'time management'.

12. (a) How would you fill in a bank chalan?

Or

(b) Write a letter to your mother, describing your tour experiences in Agra and Delhi.

13. (a) Write out a report of the Sports Day events in your college.

Or

(b) Develop the given topic sentence into a paragraph, with suitable supporting details:

"The best things in life are free."

14. (a) Write briefly on the principles of oral composition.

Or

(b) Write a paragraph on the means and aids by which creative competency can be developed.

15. (a) Write briefly on the uses of charts, diagrams and tables for effective communication.

Or

(b) Write a paragraph on the use of audio and video aids for communication.

Part C (3 × 10 = 30)

Answer **all** questions.

16. (a) Elaborate on the Kinds of Interviews and related techniques.

Or

(b) Imagine that you are applying for the post of software developer in "System Solutions Pvt. Ltd". Draft a detailed resume and a suitable job application letter.

17. (a) Attempt a review of any two books, you have read.

Or

(b) Write an essay on the topic, "Should parents decide the career of their children?"

18. (a) Elaborate on the different kinds of composition.

Or

(b) Write in detail on "Non-Verbal Communication"

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B.Sc. DEGREE EXAMINATION, APRIL 2018

Fourth Semester

Computer Science

DATABASE MANAGEMENT SYSTEM

(2016 onwards)

Time : 3 Hours Maximum : 75 Marks

Part A (10 × 2 = 20)

Answer **all** questions.

1. What are the different views of data?

2. What do you mean by weak entity set?

3. Define the term Normalization.

4. What is called Multi-valued dependency?

5. Define Interquery-parallelism.

6. What is called Heterogeneous database?

7. Write down the syntax to create a table,

8. Specify the types of user privileges.

9. What is the use of function in PL/SQL?

10. How do you create CURSOR in PL/SQL?

Part B (5 × 5 = 25)

Answer **all** questions.

11. (a) Explain the features of Data Base Management Systems.

Or

(b) Explain E-R model with neat diagram.

12. (a) Write short notes on functional Dependency theory with suitable example.

Or

(b) Describe the Database design process.

13. (a) Compare and contrast: Centralized and Client-Server architecture.

Or

(b) Discuss on Distributed transactions with example.

14. (a) How will you modify, rename and drop a table? Explain with syntax and example.

Or

(b) Explain with example, how sequences are created and deleted.

15. (a) Explain PL/SQL triggers with a sample code.

Or

(b) Give a detailed account on packages in PL/SQL with suitable example.

Part C (3 × 10 = 30)

Answer **all** questions.

16. (a) Detail on Object based and semi structured databases.

Or

(b) Explain in detail about the Database users and architecture.

17. (a) Explain Normalization technique using different Normal forms.

Or

(b) Describe I/O Parallelism with neat sketch.

18. (a) Explain the various DML commands with syntax and example.

Or

(b) Write a program to create a stored procedure to find the sum of values in a column of a given table.

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B.Sc. DEGREE EXAMINATION, APRIL 2018

Fourth Semester

Computer Science

VISUAL BASIC

(2016 onwards)

Time : 3 Hours Maximum : 75 Marks

Part A (10 × 2 = 20)

Answer **all** questions.

1. What do you mean by Explicit Declaration?

2. What is an array? Give an example.

3. Write the purpose of Timer Control.

4. What is shortcut key(s)?

5. Write any five basic properties of List Box Control.

6. Write syntax of Pset( ) method to plot a point in picture box.

7. What is the purpose of data control?

8. How do you enter Data in a database?

9. Write the steps to add an ActiveX control.

10. What is the difference between linking and embedding OLE objects in the OLE control?

Part B (5 × 5 = 25)

Answer **all** questions.

11. (a) Enlist and explain any five functions to handle strings.

Or

(b) Write short notes on For Each loop with examples.

12. (a) How to load, show and hide a form in VB? Write steps.

Or

(b) What is Pop up menu? How it is created?

13. (a) How do you load and save images? Write steps.

Or

(b) Compare List Box with Combo Box.

14. (a) Describe the steps in creating table with the Visual Data Manager.

Or

(b) List and state the purpose of properties of Data control.

15. (a) Explain about adding a property and a method to an ActiveX Control.

Or

(b) How to Activate and Deactive the OLE Objects?

Part C (3 × 10 = 30)

Answer **all** questions.

16. (a) Discuss briefly about Data types in VB.

Or

(b) Describe the steps to design a menu for your application. Illustrate with diagrams.

17. (a) Write the basic properties and their functions of the following controls:

(i) TextBox

(ii) CheckBox

(iii) Option button

(iv) Label

(v) Frame

Or

(b) Discuss in detail about Active X Data Objects.

18. (a) Discuss on multiple OLE objects handling.

Or

(b) Write a VB program to compute and display Employee Salary.

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B.Sc. DEGREE EXAMINATION, APRIL 2018

Fourth Semester

Computer Science

APPLIED PHYSICS – II

(2016 onwards)

Time : 3 Hours Maximum : 75 Marks

Part A (10 × 2 = 20)

Answer **all** questions.

1. Define energy band.
2. Draw the symbol of a tunnel diode.
3. What are hybrid parameters?
4. What is a pnp transistor?
5. What is meant by Laser?
6. Give any two advantages of He-Ne laser.
7. Define luminent efficiency.
8. What is meant by photoconductions?
9. Give the block diagram of an operational amplifier.
10. What is meant by comparator?

Part B $(5 \times 5 = 25)$

Answer **all** questions.

11. (a) Distinguish between conductors, insulators and semi conductors.

Or

(b) Explain avalanche break down.

12. (a) Sketch the V-I characteristics of an NPN transistors in CE configuration and explain.

Or

(b) With a neat circuit diagram, explain the working of FET amplifier.

13. (a) Explain population inversion and meta stable state.

Or

(b) Discuss the principle and working of a Ruby laser.

14. (a) Write a note on the following :

(i) Method of excitation in LED.

(ii) Electronic watches.

Or

(b) What is a photo diode? Explain, how does a photo diode work.

15. (a) Explain CMRR and give the importance of CMRR.

Or

(b) Discuss the A/c successive approximation with a neat circuit diagram.

Part C (3 × 10 = 30)

Answer **all** questions.

16. (a) Explain n-type semi conductor and discuss its energy band.

Or

(b) Discuss in detail the function of a transistor as

(i) Amplifier

(ii) Oscillator.

17. (a) Briefly explain stimulated emission with a neat energy level diagram. And give the advantages of laser.

Or

(b) Discuss the LED configuration and its performance in detail.

18. (a) With a neat circuit diagram explain

(i) D/C binary weighted method

(ii) R-2R ladder method.

Or

(b) Explain :

(i) Inverting amplifier

(ii) Non-inverting amplifier.

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