(COPICC01)

CAREER ORIENTED PROGRAMME (COP)
EXAMINATIONS, MAY 2017.

(Examination at the end of First Year)

CERTIFICATE COURSE IN INTRODUCTION IN COMPUTER AND 'C' PROGRAMMING

(Regulation 2010-11)

Time : Two and half hours Maximum : 75 marks

SECTION A — (5 × 3 = 15 marks)

Answer ALL questions.

1. (a) What are the various functions of an operating system?

(b) Write short note on various text formatting options available in MS Word.

(c) What is auto content wizard in PowerPoint?

(d) Write short note on unary operators.

(e) Distinguish structure and union.

SECTION B — (5 × 12 = 60 marks)

Answer ALL questions.

2. (a) Briefly explain various kinds of secondary memories.

(b) What are various types of operating systems? Explain the working of any one of them.

Or

(c) Write short note on characteristics of a digital computer.

(d) Write any six internal and external commands of DOS.

3. (a) Write step by step procedure to create tables in MS Word.

(b) Define macro. Write short note on the use of macro.

Or

(c) Briefly explain the use of templates in MS Word.

(d) How can you create header and footer of a document? Explain.

4. (a) What is custom animation for a PowerPoint slide? Explain.

(b) Briefly explain the procedure to insert videos into a PowerPoint presentation.

Or

(c) Write short note on various applications of PowerPoint.

(d) How can you create hyperlinks in a PowerPoint presentation? Explain.

5. (a) Write a C-program to check whether the given positive integer is prime number or not.

(b) Write brief notes on various ways of initializing single dimensional arrays.

Or

(c) Write a program in C-language to find the sum of all the elements of the given single dimensional array.

(d) Distinguish 'call by value' and 'call by reference'.

6. (a) Define structure. Write short note on 'nesting of structures' concept.

(b) Write a C program to find the length of a string without library functions that handles string operations.

Or

(c) How can you pass pointers as function arguments?

(d) Write a C-program to reverse the given string without using any library function that handles string operations.

(COPICC02)

CAREER ORIENTED PROGRAMME (COP)
EXAMINATION, MAY 2017.

(Examination at the end of Second Year)

DIPLOMA IN INTRODUCTION IN COMPUTER TECHNOLOGY C++ AND DATA STRUCTURES

(Regulation 2010-11)

Time : Two and half hours Maximum : 75 marks

SECTION A — (5 × 3 = 15 marks)

Answer ALL questions.

1. (a) Write short note on inheritance.

(b) Distinguish private members and public members.

(c) Write an algorithm to insert an item into queue.

(d) What are the major drawbacks of linked list representation?

(e) Construct BST with the following numbers :

15, 10, 8, 12, 20, 4.

SECTION B — (5 × 12 = 60 marks)

Answer ALL questions.

2. (a) Write short note on data encapsulation and data abstraction.

(b) Briefly discuss various advantages of OOP.

Or

(c) Illustrate the use of copy constructor with an example program.

(d) Write a C++ program to add two complex numbers.

3. (a) What is the use of friend function? Explain.

(b) Differentiate while loop and do-while loop.

Or

(c) Write short note on operator overloading.

(d) Write a C++ program to concatenate two strings.

4. (a) Write a function to create a single linked list.

(b) Distinguish single linked list and double linked list.

Or

(c) Write a function to delete head node of a double liked list.

(d) What is self referential structure? Explain.

5. (a) Define Stack. Write an algorithm to PUSH an item in to stack.

(b) Differentiate circular queue and queue with suitable examples.

Or

(c) Write overflow and underflow conditions in stacks, queues and circular queues.

(d) Mention various applications of STACKS and QUEUES.

6. (a) How can you represent binary trees? Explain.

(b) Construct an expression tree for the following expression :

$(a+b)*(c-d)/(p+q)+5$.

Or

(c) Write the procedure to traverse the given graph using depth first search traversal mechanism.

(d) What are the various graph representation methods? Explain any one of it.

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6. (a) Briefly discuss the features of PL/SQL.

(b) Describe the structure of PL/SQL program.

Or

(c) Illustrate the use of cursor with an example PL/SQL program.

(d) Write short note on any two of the control statements available in PL/SQL.

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CAREER ORIENTED PROGRAMME (COP) EXAMINATION, MAY 2017.

(Examination at the end of Third Year)

ADVANCED DIPLOMA IN INFORMATION AND COMPUTER TECHNOLOGY

(Regulation 2010-2011)

Time : Three hours Maximum : 75 marks

SECTION A — (5 × 3 = 15 marks)

Answer ALL questions.

1. (a) Define DBMS with example

(b) What is the use of primary key in a table?

(c) Write short note on view in SQL.

(d) Write any three DDL commands

(e) Define cursor. Write one example.

SECTION B — (5 × 12 = 60 marks)

Answer ALL questions.

2. (a) What is the use of ER model? Explain.

(b) Write short note on the disadvantages of file processing system as compared to DBMS.

Or

(c) Briefly explain various phases of SDLC.

(d) What is 3-schema architecture? Explain.

3. (a) Write brief note on various kinds of applications that can be built using access package.

(b) Describe the steps to create a table in MS access.

Or

(c) Explain the process of generating reports in MS access.

(d) What is form? Write the procedure to create a form.

4. (a) Write and explain any three DDL commands of SQL. (2 × 3 = 6)

(b) Write short note on different data types of SQL.

Or

(c) What is the use of query and subquery? Explain with an example.

(d) Write the use of following commands

(i) Grant (2)

(ii) Revoke (2)

(iii) Rollback. (2)

5. (a) What are the various set operators used in SQL. Explain.

(b) Distinguish inner join and outer join with suitable examples.

Or

(c) Write short note on inline views.

(d) Explain different types of indexes.

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CAREER ORIENTED PROGRAMME (COP)
EXAMINATION, MAY 2017.

(Examination at the end of First Year)

CERTIFICATE COURSE IN MEDICAL LAB TECHNOLOGY/MEDICAL DIAGNOSTICS

(Regulation 2010-11)

Time : Three hours Maximum : 70 marks

SECTION A — (6 × 5 = 30 marks)

(Short Answer Type Questions)

Answer any SIX Questions.

All questions carry equal marks.

1. Fluorescence Microscope
2. Anaerobic media
3. Proteins
4. Blood composition
5. Immune system
6. Antony Van Leuwenhoek

7. Fungi

8. Centrifugation

9. Sterilization

10. Haemoglobin

SECTION B — (4 × 10 = 40 marks)

Answer ALL questions.

All questions carry equal marks.

11. (a) Give an account on the classification of medically important microbes.

Or

(b) Describe the principle, methodology and applications of Phase contrast microscopy.

12. (a) Describe the principle, methodology and applications of Spectrophotometer.

Or

(b) Write a note on classification, properties and functions of Amino acids?

13. (a) Describe the history and development of Immunology.

Or

(b) Write a note on immune mechanism.

14. (a) Explain the principle and procedure of blood grouping.

Or

(b) Write a brief note on blood banking and blood transfusion.

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CAREER ORIENTED PROGRAMME (COP)
EXAMINATIONS, MAY 2017.

(Examination at the end of Second year)

DIPLOMA IN MEDICAL LAB TECHNOLOGY

(Regulation 2010-2011)

Time : Three hours Maximum : 70 marks

SECTION A — (6 × 5 = 30 marks)

Short answer type questions.

Answer any SIX Questions.

All Questions carry equal marks.

1. CSF fluid analysis.
2. Chemistry of blood.
3. Reticulocyte count.
4. Parasites in blood.
5. TCA Cycle.
6. Aspergillosis.

7. Coagulation tests.

8. Ketone body formation.

9. Parasites in Urine.

10. Gram positive and Gram negative bacteria.

SECTION B — (4 × 10 = 40 marks)

Answer ALL questions.

All questions carry equal marks.

11. (a) Discuss in detail medically important human mycosis.

Or

(b) Write about general properties and cultivation of important pathogenic viruses?

12. (a) Describe the classification of enzymes and their diagnostic importance.

Or

(b) Describe the process of digestion and absorption of proteins.

13. (a) Describe the different types of antigen-antibody reactions.

Or

(b) What are the different types of cells in immune system?

14. (a) Discuss about Erythrocyte sedimentation rate and Packed cell volume.

Or

(b) Discuss in detail about examination of body fluids from different parts of the body.

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CAREER ORIENTED PROGRAMME (COP)
EXAMINATION, MAY 2017

(Examination at the end of Third Year)

ADVANCED DIPLOMA IN MICROBIOLOGY AND PARASITOLOGY

(Regulation 2010-2011)

Time : Three hours Maximum : 70 marks

SECTION A — (6 × 5 = 30 marks)

Short answer type questions.

Answer any SIX questions.

All questions carry equal marks.

1. Haemoglobin
2. Serological diagnosis
3. Amoebiasis
4. Bone marrow
5. Fiat worms
6. Blood banking
7. Biopsy

8. Respiratory system

9. Pathogenic bacteria

10. Hypersensitivity.

SECTION B — (4 × 10 = 40 marks)

Answer ALL questions.

All questions carry equal marks.

11. (a) Describe the morphology and laboratory diagnosis of *Ancylostoma* duodenale?

Or

(b) Describe the morphology and laboratory diagnosis of *Wuchereria bancrofti*?

12. (a) Describe in detail the importance of RBC indices and calculation?

Or

(b) Describe in detail about Auto Immune diseases?

13. (a) Describe the procedures applied in biopsy and autopsy?

Or

(b) Describe in detail the methods used for processing body fluids for cytological examinations?

14. (a) Describe in detail Human Reproductive System.

Or

(b) Describe the diagnostic methods of blood and lymphoid system?

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