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CAREER ORIENTED PROGRAMME (COP)
EXAMINATION, APRIL 2018.

(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) ALU and its functions.
- (b) What is the use of cache memory? Explain.
- (c) What are the various applications of PowerPoint?
- (d) What is the difference between 'break' and 'continue' statements?
- (e) Differentiate structure and union.



SECTION B — (5 × 12 = 60 marks)

Answer ALL questions.

2. (a) Write short note on various kinds of ROM's.
(b) Distinguish single user and multiuser operating systems with examples.

Or

- (c) Briefly explain various output devices.
(d) Write any three internal and three external commands of DOS.
3. (a) Write step by step procedure to create header and footer in MSWord.
(b) Define template. What are the various types of templates?

Or

- (c) What is the use of mail merge? Explain the procedure to create mail merge document. (12)
4. (a) Write step by step procedure to create a PowerPoint presentation.
(b) Briefly explain the procedure to import an image in to a PowerPoint slide.

Or

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- (c) What is the use of custom animations in a slide? Explain.
(d) Write short note on the creation of PowerPoint presentation using templates.
5. (a) Write brief note on various operators available in C-language. (12)

Or

- (b) Differentiate 'while loop' and 'do-while loop'.
(c) What is the use of 'call by reference'? Explain.
6. (a) Write a program to find the average marks, of 10 students using "Array of structures" concept. (12)

Or

- (b) Explain nesting of structures concept with an example.
(c) Define pointer. What are the basic operations that can be performed on pointers?

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(c) Explain any one of the tree traversal method with an example.

(d) Define the following terms with examples.

(i) Cycle (2)

(ii) Source (2)

(iii) Directed graph. (2)

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CAREER ORIENTED PROGRAMME (COP)
EXAMINATION, APRIL 2018.

(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) Briefly explain the concept of data encapsulation.
- (b) What is the use of constructors and destructors?
- (c) Write an algorithm to PUSH an element into stack.
- (d) Distinguish Single linked list and double linked list.
- (e) Define heap, min heap and max heap.

SECTION B — (5 × 12 = 60 marks)

Answer ALL questions.

2. (a) Write brief notes on runtime polymorphism.
(b) Explain any three types of inheritances.

Or

- (c) What are the various ways of creating an object of a class? Explain with an example.
(d) Distinguish, private, public and protected access specifiers.
3. (a) Illustrate the use of friend function with an example.
(b) Write short note on the use of polymorphism.

Or

- (c) What is Function overloading? Explain.
(d) Write short note on the use of static member functions.
4. (a) Write the advantages and disadvantages of linked list representation as compared to that of array representation.
(b) Write a function to count the number of nodes in a double linked list.

Or

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- (c) Write a function to create circular linked list.
(d) Distinguish single linked list and double linked list with example.
5. (a) Write overflow and underflow conditions for circular queues and DEqueues.

- (b) Distinguish STACKS and QUEUES with suitable examples.

Or

- (c) Mention various applications of STACKS and QUEUES.

- (d) Discuss the representations of priority queue and DE queue.

6.

- (a) What are the various graph traversal mechanisms? Explain any one of it.

- (b) Define the following terms with examples.

(i) Full binary tree (2)

(ii) Complete tree (2)

(iii) BST (2)

Or

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CAREER ORIENTED PROGRAMME (COP)
EXAMINATION, APRIL 2018.

(Examination at the end of Third Year)



ADVANCED DIPLOMA IN INFORMATION AND
COMPUTER TECHNOLOGY

(Regulation 2010–11)

Time : Three hours

Maximum : 75 marks

SECTION A — (5 × 3 = 15 marks)

Answer ALL the questions.

1. (a) Advantages of DBMS.
- (b) Foreign key.
- (c) Write general format of 'insert', 'update' and 'delete' commands.
- (d) Write short note on simple view in SQL.
- (e) What is the use of cursor?

SECTION B — (5 × 12 = 60 marks)

Answer ALL the questions.

2. (a) What are the advantages of DBMS over traditional file processing system?
(b) Write short note on three – schema architecture.

Or

- (c) Briefly explain various entities of ER model.
(d) Write short note on various phases of SDLC.
3. (a) Write short note on the features of MS-Access.
(b) What are the various kinds of reports that can be generated in MS-Access? Explain.

Or

- (c) Write procedure to insert and edit data with in the forms.
(d) Briefly discuss various applications of MS Access.
4. (a) Write short note on different data types of SQL.
(b) Explain DCL commands with examples.

Or

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- (c) What is the need of having save points? Explain.

- (d) Define subquery. What are the properties of sub queries?

5. (a) What is inner join and outer join? Explain.

- (b) Write short note on various ways of counting number of rows in a table.

Or

- (c) Briefly explain materialized view.
(d) What is the basic use of SET operations in SQL? Explain.

6. (a) Write short note on input and output statements of PL/SQL.

- (b) Write and explain the general structure of FOR statement in PL/SQL.

Or

- (c) Write an example PL/SQL code to create a cursor.

- (d) Write PL/SQL code to find maximum value from the set of values of a table column which contains numeric values.

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CAREER ORIENTED PROGRAMME (COP)
EXAMINATION, APRIL 2018.

(Examination at the end of First Year)

CERTIFICATE COURSE IN MEDICAL LAB
TECHNOLOGY/MEDICAL DIAGNOSTICS

(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. Proteins
2. Enriched media
3. Disinfection
4. Blood groups
5. Urine analysis
6. Joseph Lister
7. Viruses



8. Spectrophotometer
9. Fluorescence microscope
10. Immunoglobulins.

13. (a) Describe in detail about Immune system and its mechanism.

Or

(b) Write a brief account on Immunology and its applications.

SECTION B — (4 × 10 = 40 marks)

Answer ALL questions.

All questions carry equal marks.

11. (a) Describe the principle, methodology and applications of Dark field microscopy?

Or

(b) Write a note on the classification of medically important microbes (bacteria and viruses).

12. (a) Write in detail principle, operation and application of centrifugation?

Or

(b) Write a note on classification, properties and function of lipids?

14. (a) Describe composition of blood and its functions.

Or

(b) Write a brief account on clinical pathology.

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CAREER ORIENTED PROGRAMME (COP)
EXAMINATION, APRIL 2018.

(Examination at the end of Second Year)

DIPLOMA IN MEDICAL LAB TECHNOLOGY

(Regulation 2010–2011)

Time : 3 hours

Maximum : 70 marks

SECTION A — (6 × 5 = 30 marks)

(Short Answer Type Questions)

Answer any SIX questions.

All questions carry equal marks.

1. ELISA test.
2. Bacterial diseases.
3. Urea Cycle.
4. Coagulation tests.
5. Reticulocyte count.
6. Erythrocyte sedimentation rate.



- 7. Parasites in blood.
- 8. Candidiasis.
- 9. Anticoagulants.
- 10. Parasites in stool.

13. (a) What are the different types of cells of immune system?

Or

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

SECTION B — (4 × 10 = 40 marks)

Answer ALL questions.

All questions carry equal marks.

11. (a) Describe the morphology, cultural characteristics and laboratory diagnosis of important pathogens.

Or

(b) Discuss in detail medically important human mycosis.

12. (a) Describe the process of digestion and absorption of lipids.

Or

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

14. (a) Discuss in detail about the chemistry of blood and urine formation.

Or

(b) Write a note on disposal of biomedical waste and semen analysis.

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CAREER ORIENTED PROGRAMME (COP)
EXAMINATION, APRIL 2018.

(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. Helminth parasites.
2. Anemia.
3. Staining techniques.
4. Fixatives.
5. Blood urea.
6. Haemoglobin.



7. Vanden Bergh Test.
8. Protozoan parasites.
9. Lymphoid system.
10. Sickle cell preparation.

13. (a) Write about the materials, equipments and methods involved in Histopathological Studies.

Or

- (b) Write in detail about the Leishman's and Papanicolaous staining methods.

SECTION B — (4 × 10 = 40 marks)

Answer ALL questions.

All questions carry equal marks.

11. (a) Describe the general methods of laboratory diagnosis of *Giardia lamblia*.

Or

- (b) Describe in detail Morphology, life cycle and laboratory diagnosis of *Leishmania donovani*.

12. (a) Describe in detail the concepts of Liver functiontests.

Or

- (b) Describe the storage and processing of blood bags in blood banks.

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

Or

- (b) Describe in detail cardiovascular system.