

**COURSE: COMPUTER FUNDAMENTALS AND PC SOFTWARE
(MCA -01)**

Total Marks: 50

[Assignments are required to be written in your own language. Copying in toto from the learning materials will carry less score]

A. Answer the following three questions:

2 X 3 = 6

- Q1. Convert **(1011.01)₂** into its decimal equivalent.
- Q2. What is a binary file?
- Q3. Describe the concept of booting.

B. Answer the following four questions:

4 X 3 = 12

- Q1. What is the function of the given LINUX commands - **ifconfig, finger, kill**
- Q2. What is the function of the given DOS commands- **type, fc, less**
- Q3. What are LILO and GRUB? How they work?

C. Answer the following questions:

6X 2 = 12

- Q1. Define shell. Describe the different types of shell.
- Q2. Explain the steps for inserting charts in MS Excel.

D. Answer the following questions:

10 X 2 = 20

- Q1. Discuss the different types of operating system.
- Q2. Explain the steps involved in adding graph and pictures in a MS-Word document?

**COURSE: DIGITAL LOGIC
(MCA -02)**

Total Marks: 50

[Assignments are required to be written in your own language. Copying in toto from the learning materials will carry less score]

A. Answer the following three questions:

2 X 3 = 6

- Q1. Develop the truth table for a 3-input OR gate.
- Q2. Convert **(13.75)₁₀** into binary.
- Q3. Prove that **$AB+A'C+BC=AB+A'C$**

B. Answer the following three questions:

4 X 3 = 12

- Q1. How does a J-K flip-flop differ from a R-S flip-flop in its basic operation?
- Q2. Reduce the following minterm expression using K-map:
 $X = \sum m(0,2,3,4,5,7)$
- Q3. Why a flip-flop is always triggered by a clock? Is it essential? If so, give reasons.

C. Answer the following two questions:

6 X 2

= 12

- Q1. Explain fixed point and floating point representation of numbers using examples.
- Q2. Draw the logic diagram of a serial-in, serial-out shift register using D flip-flops only.
Describe its functional characteristics.

D. Answer the following questions:

10 X 2 = 20

- Q1. What is Multiplexer? Draw the logic diagram of a (8×1) multiplexer and describe its working.
- Q2. Describe the different classifications of memory.

**COURSE: COMPUTER PROGRAMMING USING C
(MCA-03)**

Total Marks: 50

[Assignments are required to be written in your own language. Copying
in toto from the learning materials will carry less score]

A. Answer the following questions: 2

X 3 = 6

Q1. What is the use of macros?

Q2. Use the conditional operator to find the greatest of 3 numbers.

Q3. What is a **typedef** statement in C?

B. Answer the following questions:

4 X 3 = 12

Q1. What is the difference between the following two declarations of a function

myfunction?

a) void myfunction (int a[]);

b) void myfunction (int *a);

Q2. What are the three basic control structures in C?

Q3. What is the difference between *void* pointer and *NULL* pointer? Write down the syntax for declaring these two pointers.

C. Answer the following questions: 6X

2 = 12

Q1. Write a function that takes two *int* parameters, and returns the sum of all integers

between them.

Q2. Write a function to swap the values between two numbers.

D. Answer the following questions: 10

X 2 = 20

Q1. Write a C program using function that takes a string and a number between 0 and 9 as

parameters, and displays the string that many times, and returns its length.

Q2. Write a C program to accept the names and marks of 7 students in 5 subjects. Print in descending order the rank list based on the average of

the 5 subjects. Also print the name of the first ranker and his percentage.

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**COURSE: COMMUNICATIVE ENGLISH
(MCA -04)**

Total Marks: 50

*[Assignments are required to be written in your own language. Copying
in toto from the learning materials will carry less score]*

A. Answer the following three questions: (Within 50 words) **2**

X 3 = 6

Q1. Mention any one advantage and one disadvantage of verbal communication.

Q2. Define the two types of clauses with examples.

Q3. What is meant by active listening?

B. Answer the following three questions: (Within 75 words) **4**

X 3 = 12

Q1. What is the difference between intensive reading and extensive reading?

Q2. What are the characteristics of a good business report?

Q3. Communication is goal oriented. Discuss.

C. Answer the following two questions: (Within 150 words) **6**

X 2 = 12

Q1. What are the characteristics of Non-verbal Communication?

Q2. Describe the technique of 'skimming'.

D. Answer the following two questions: (Within 300 words) **10**

X 2 = 20

Q1. Discuss the structure of a business letter.

Q2. Explain the importance of listening skill in business.

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Assignment Guidelines

A. Guidelines to Co-ordinators:

1. Assignments are parts of teaching-learning process and compulsory.
2. The spirit behind this is to help learners to understand the subject and prepare themselves better for the term-end examination.
3. Assignment responses are to be evaluated and feedbacks are required to be communicated to the learners, by giving back the assignments with evaluator's comments. Such assignments are to be collected at the time of issuing admit cards and be stored in the centre's office till the end of next semester.
4. Assignment marks are to be sent to the Controller of Examinations as soon as the examination routines are published.
5. Keeping the above points in mind Co-ordinators will fix the time/date of submission of assignments by the learners as may be convenient to follow the guidelines in true spirits.

B. Guidelines to learners:

1. As soon as the SLMs are received the learners will write the assignments in their own handwriting (assignment questions may be downloaded from the website, if necessary) to be submitted to Co-ordinators as per the dates fixed for the purpose. Timely submission of assignments at the Study Centres will help in quick processing of results of respective learners. Otherwise this will create unnecessary delay in declaration of results.
2. Writing of assignment (work) and submission of the same in time is compulsory.

Registrar

N.B. The learners will have to collect receipt after submitting the assignment with the signature and seal of the collector of study centre and will have to keep with him/her till the declaration of result.

✕□.....

Receipt

Received the assignment from Mr/MsEnrollment number
.....of 1st Semester MCA on2017.

Date:

Signature of collector with seal

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