

MASTER OF COMPUTER APPLICATIONS (MCA)

MCA/ASSIGN/SEMESTER-I

ASSIGNMENTS

(July - 2015 & January - 2016)

MCS-011, MCS-012, MCS-013, MCS-014, MCS-015,

MCSL-016, MCSL-017



**SCHOOL OF COMPUTER AND INFORMATION
SCIENCES INDIRA GANDHI NATIONAL OPEN
UNIVERSITY MAIDAN GARHI, NEW DELHI – 110 068**

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Important Notes

1. Submit your assignments to the Coordinator of your Study Centre on or before the due date.
2. Assignment submission before due dates is compulsory to become eligible for appearing in corresponding Term End Examinations. For further details, please refer to MCA Programme Guide.
3. To become eligible for appearing the Term End Practical Examination for the lab courses, it is essential to fulfill the minimum attendance requirements as well as submission of assignments (on or before the due date). For further details, please refer to the MCA Programme Guide.
4. The viva voce is compulsory for the assignments. For any course, if a student submitted the assignment and not attended the viva-voce, then the assignment is treated as not successfully completed and would be marked as ZERO.

Course Code	:	MCS-011
Course Title	:	Problem Solving and Programming
Assignment Number	:	MCA(I)/011/Assignment/15-16
Maximum Marks	:	100
Weightage	:	25%
Last Dates for Submission	:	15th October, 2015 (For July 2015 Session) 15th April, 2016 (For January 2016 Session)

There are six questions in this assignment, which carries 80 marks. Rest 20 marks are for viva-voce. Answer all the questions. You may use illustrations and diagrams to enhance the explanations. Please go through the guidelines regarding assignments given in the Programme Guide for the format of presentation. Insert comments in the coding for better understanding.

1. Define a flowchart. Write an algorithm and draw a corresponding flowchart to create a simple multiple choice question (MCQ) examination of 25 questions for 50 marks along with evaluation process too. (20 Marks)

2. Write an interactive C program for **Q1**. (10 Marks)

3. Discuss the significance of BITWISE operators in C programming language. Also, write an interactive C program to illustrate them. (10 Marks)

4. Define an array. Write an interactive C program to take two single dimensional arrays of integers and merge them into a single dimensional array, excluding the common elements of both the arrays. (10 Marks)

5. Write an interactive C program which illustrates the following concepts: (10 Marks)
 - (i) Function with no arguments and no return value.
 - (ii) Function with arguments and no return value.
 - (iii) Function with arguments and with return value.

6. Write an interactive C program to manage the assignments at (20 Marks) study centres for the first semester courses of MCA (MCS-011, 012, 13, 014, 015, MCSL-016 and MCSL-017). Maximum marks for each assignment is 100 marks and weightage is 25%. Attending the viva-voce at the study centre for each assignment is compulsory. Pass percentage in each assignment is 40%.
(Note: Use *Structures* concept).

Course Code	:	MCS-012
Course Title	:	Computer Organisation and Assembly Language Programming
Assignment Number	:	MCA(I)/012/Assignment/15-16
Maximum Marks	:	100
Weightage	:	25%
Last Dates for Submission	:	15th October, 2015 (For July 2015 Session) 15th April, 2016 (For January 2016 Session)

There are four questions in this assignment, which carries 80 marks. Rest 20 marks are for viva voce. You may use illustrations and diagrams to enhance the explanations. Please go through the guidelines regarding assignments given in the Programme Guide for the format of presentation. Answer to each part of the question should be confined to about 300 words.

1. (Covers Block 1)

- (a) Perform the following arithmetic operations using binary signed 2's complement notation for integers. You may assume that the maximum size of integers is of **8 bits** including the sign bit. (Please note that the numbers given here are in decimal notation) *(3 Marks)*
- i) Add – 128 and 120
 - ii) Subtract 124 from –99
 - iii) Add 64 and 61
- Please indicate the overflow if it occurs. Also write, how you have identified the overflow.
- (b) Convert the hexadecimal number: (FAEBDC)_h into equivalent binary, octal and decimal. *(1 Marks)*
- (c) Convert the following string into equivalent “UTF 16” code – *(2 Marks)*
- "You may assume that Hindi swar starts with **ॐ**"
- Are these UTF 16 codes similar as that used in ASCII?
- (d) Use a Karnaugh's map to design a circuit that takes four input bits and produces one output bit. The output bit is 0 if the first and fourth input are same else it is 1. *(2 Marks)*
- (e) An 8 bit data 01101101 after transmission is received as 01001101. Explain how SEC code will detect and correct this problem. *(3 Marks)*
- (f) Design a two bit counter (a sequential circuit) that counts from 00 to 10 only. Thus, the counter states are 00, 01, 10, 00, 01, You should show the state table, state diagram, the k-map for circuit design and logic diagram of the resultant design using D flip-flop or J-K flip flop. *(5 Marks)*

- (g) Explain the double precision floating point IEEE 754 representation. Represent the number $(124.0625)_{10}$ using IEEE 754 single precision and double precision representations. (4 Marks)

2. (Covers Block 2)

- (a) A RAM has a capacity of 8192K having the word size of 16 bits and supports byte addresses only. (2 Marks)

- (i) How many data input and output lines does this RAM need? Explain your answer.
(ii) How many address lines will be needed for this RAM? Explain.

- (b) A computer has 1MB RAM and has word size of 16 bits. It has cache memory having 16 blocks with a block size of 32 bits. Explain how a main memory address will be mapped to a cache address, if (4 Marks)

- (i) Direct cache mapping is used
(ii) Associative cache mapping is used
(iii) Two way set associative mapping scheme is used.

- (c) Compare and contrast the features of Interrupt driven I/O with that of DMA. Which I/O technique will be preferable in the following situations. Give justification in support of your answer. (4 Marks)

- (i) Data is to be transferred from a very high speed device having high volume data.
(ii) Small volume of data transferred asynchronously.

- (d) Explain the term FAT in the context of disk operating system. What will be the size of a disk and its FAT, if a disk has 64 tracks with each track having 16 sectors and size of each sector is 512 byte? You may take the cluster size as 4 sectors. (2 Marks)

- (e) Explain the characteristics of at least two portable secondary/tertiary storage devices. (2 Marks)

- (f) Define each of the following terms. Also explain their use/advantage, if needed. (6 Marks)

(Word limit for answer of each part is 50 words ONLY)

- (i) Access time on magnetic disks
(ii) Backup devices
(iii) Scanner resolution
(iv) LCD and its types
(v) AGP in the context of video card interfaces
(vi) Colour Depth

3. (Covers Block 3)

- (a) A hypothetical machine has 22 registers. Out of these 6 registers are used as segment registers. Assume that the machine uses segment registers to find physical address in the similar way as is done in 8086 processor. Remaining 16 registers are general purpose registers. All the registers and memory word for the machine are of 16 bits. The machine has 1 M Word RAM. An instruction of the machine is of 32 bits which includes opcode - 5 bits, addressing mode specification - 3 bits and remaining bits for specifying the operand addresses. Each instruction contains at most two operand addresses - at most one memory operand and remaining register operand(s). What would be the size of memory address, if direct addressing is used? What would be the size of the direct register operand? The machine is to be used for calculations involving arrays and floating point numbers. Design five different types of addressing modes for this machine. Give justification of the selection of every addressing mode. (4 Marks)

- (b) Assume that the machine as stated in part (a) has named 5 of its (5 Marks) general purpose registers based on their possible role in instruction execution as Program Counter (PC), Accumulator (AC), Memory Address Register (MAR), Instruction Register (IR), Data Register (DR) and Flag registers (FR). To execute an instruction of the machine that has a direct memory operand and a register operand, the memory operand is first brought into the DR register and the register operand is transferred to AC register. The result of the operation is stored in the AC register. One of the instruction of the machine is given below:

```
ADD R1, X           // this instruction adds the operand stored in
                    Register R1 and memory location X. The result
                    is stored in the AC register.
```

Write and explain the sequence of micro-operations that are required to fetch and execute this instruction. Make and state suitable assumptions, if any.

- (c) Assume that you have a machine as shown in section 3.2.2 of Block 3 having the micro-operations as given in Figure 10 on page 62 of Block 3. Consider that R1 and R2 both are 8 bit registers and contains 1010 0011 and 11001011 respectively. What will be the values of select inputs, carry-in input and result of operation (including carry out bit) if the following micro-operations are performed? (For each micro-operation you may assume the initial value of R1 and R2 as given above) (2 Marks)
- (i) Subtract R2 from R1
 - (ii) AND of R1 and R2
 - (iii) Shift right R1 twice
 - (iv) Add R1 and R2 with carry

- (d) How does a Micro-programmed control Unit will control the execution of an instruction. Explain with the help of an addition instruction. (3 Marks)
- (e) Explain with the help of a diagram how does RISC Instruction pipelining work. Also explain how RISC instruction pipeline can be optimised. (3 Marks)
- (f) Assume that a RISC machine has 128 registers out of which 16 registers are reserved for the Global variables and 16 for Instruction related tasks. This machine has been designed to have 12 registers for storing four input parameters, four output parameters and four local variables for a subroutine call. Explain with the help of a diagram, how the overlapped register window can be implemented in this machine for procedure calls. You must explain how the parameters will be passed, if a subroutine calls another subroutine. (3 Marks)

4. (Covers Block 4)

- (a) Write a program in 8086 assembly Language (with proper comments) to count the number of alphabets 'a', 'e' and 'o' (irrespective of lower or upper case) in a strings. For example, in case the strings is: "ABaDEFeHIO" the count of 'a' will be 2, 'e' is 2 and 'o' is 1. You may assume that string is available in the memory and is of length 10. Make suitable assumptions, if any. (8 Marks)
- (b) Write a program in 8086 assembly language that accepts a 2 digit input from the keyboard (as ASCII input) into packed BCD number. The packed BCD number may be stored in memory. (6 Marks)
- (c) Write a simple near procedure in 8086 assembly language that receives an ASCII digit as parameter. It returns 1 if the ASCII digit is 'Z' else it returns 0. Make suitable assumptions, if any. (6 Marks)

Course Code	:	MCS-013
Course Title	:	Discrete Mathematics
Assignment Number	:	MCA(I)/013/Assignment/15-16
Maximum Marks	:	100
Weightage	:	25%
Last Dates for Submission	:	15th October, 2015 (For July 2015 Session) 15th April, 2016 (For January 2016 Session)

There are eight questions in this assignment, which carries 80 marks. Rest 20 marks are for viva-voce. Answer all the questions. You may use illustrations and diagrams to enhance the explanations. Please go through the guidelines regarding assignments given in the Programme Guide for the format of presentation.

1. (a) Make truth table for followings. *(4 Marks)*
 - i) $p \rightarrow (\sim q \vee \sim r) \wedge \sim p \wedge \sim q$
 - ii) $p \rightarrow (r \vee \sim q) \wedge (\sim p \vee r)$

- (b) Draw a venn diagram to represent followings: *(3 Marks)*
 - i) $(A \cap B) \cup (C \sim A)$
 - ii) $(A \cup B) \cap (B \cap C)$

- (c) Give geometric representation for followings: *(3 Marks)*
 - i) $\{2\} \times \mathbb{R}$
 - ii) $\{1, 2\} \times (2, -3)$

2. (a) Write down suitable mathematical statement that can be represented by the following symbolic properties. *(4 Marks)*
 - (i) $(\exists x) (\forall y) P$
 - (ii) $\forall (x) (\forall y) (\exists z) P$

- (b) Show whether $\sqrt{15}$ is rational or irrational. *(4 Marks)*

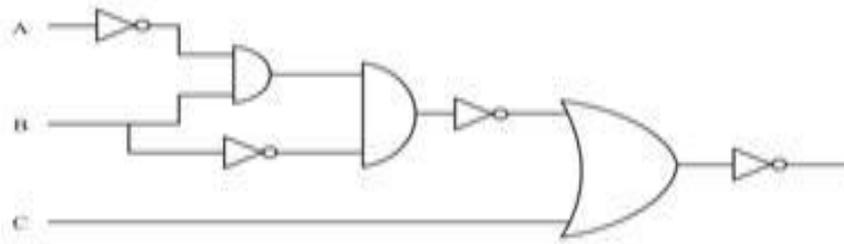
- (c) Explain inclusion-exclusion principle with example. *(2 Marks)*

3. (a) Make logic circuit for the following Boolean expressions: *(6 Marks)*
 - i) $(x' y' z) + (xy'z)'$
 - ii) $(x'y) (yz') (y'z)$
 - iii) $(xyz) + (xy'z)$

- (b) What is a tautology? If P and Q are statements, show whether the statement $(P \rightarrow Q) \vee (Q \rightarrow P)$ is a tautology or not. *(4 Marks)*

4. (a) How many different 8 professionals committees can be formed each containing at least 2 Professors, at least 2 Technical Managers and 3 Database Experts from list of 10 Professors, 8 Technical Managers and 10 Database Experts? (4 Marks)
- (b) What are Demorgan's Law? Explain the use of Demorgan's law with example. (4 Marks)
- (c) Explain addition theorem in probability. (2 Marks)
5. (a) How many words can be formed using letter of **UNIVERSITY** using each letter at most once?
 i) If each letter must be used,
 ii) If some or all the letters may be omitted. (2 Marks)
- (b) Show that: (4 Marks)
 $(p \rightarrow q) \rightarrow q \Rightarrow p \vee q$
- (c) Prove that $n! (n + 2) = n! + (n + 1)!$ (4 Marks)
6. (a) How many ways are there to distribute 20 distinct object into 10 distinct boxes with: (3 Marks)
 i) At least three empty box.
 ii) No empty box.
- (b) Explain principle of multiplication with an example. (3 Marks)
- (c) Set A,B and C are: $A = \{1, 2, 4, 8, 10, 12, 14\}$, $B = \{1, 2, 3, 4, 5\}$ and $C = \{2, 5, 7, 9, 11, 13\}$. (4 Marks)
 Find $A \cap B \cup C$, $A \cup B \cup C$, $A \cup B \cap C$ and $(B \sim C)$
7. (a) Find how many 3 digit numbers are odd? (2 Marks)
- (b) What is counterexample? Explain with an example. (3 Marks)
- (c) What is a function? Explain following types of functions with example (5 Marks)
 i) Surjective ii) Injective iii) Bijective
8. (a) Find inverse of the following function: (2 Mark)
 $f(x) = \frac{x^3 + 2}{x - 3} \quad x \neq 3$
- (b) Explain equivalence relation with example. (2 Mark)

- (c) Find Boolean expression for the output of the following logic circuit. (3 Marks)



- (d) Prove that the inverse of one-one onto mapping is unique. (3 Marks)

Course Code	:	MCS-014
Course Title	:	Systems Analysis and Design
Assignment Number	:	MCA(I)/014/Assignment/15-16
Maximum Marks	:	100
Weightage	:	25%
Last Dates for Submission	:	15th October, 2015 (For July 2015 Session) 15th April, 2016 (For January 2016 Session)

This assignment has three questions of 80 marks. Rest 20 marks are for viva voce. Answer all questions. You may use illustrations and diagrams to enhance the explanations. Please go through the guidelines regarding assignments given in the Programme Guide for the format of presentation.

1. Develop SRS for **Online Admission System** for a University. *(30 Marks)*
SRS should be as per IEEE standard SRS template. Make necessary assumptions.
2. Draw the DFDs upto 3rd level for **Online Admission System** for a University. *(30 Marks)*
3. Draw ERD for **Online Admission System** for a University. *(20 Marks)*
Make necessary assumptions.

Course Code	:	MCS-015
Course Title	:	Communication Skills
Assignment Number	:	MCA(I)/015/Assignment/15-16
Maximum Marks	:	100
Weightage	:	25%
Last Dates for Submission	:	15th October, 2015 (For July 2015 Session) 15th April, 2016 (For January 2016 Session)

This assignment has ten questions. Answer all questions. Please go through the guidelines regarding assignments given in the Programme Guide for the format of presentation.

1. Read the passage below and answer the questions that follow:

Whatever the type of job interview — a walk-in, a telephone interview or a regular in-person job interview, preparation is the key. It is important that you keep yourself in a state of high motivation and readiness, making optimum use of your time to equip yourself to excel. Here are a few things you'd like to do for sure, by way of preparation.

You are certain to be asked specific questions about your potential employer, so make sure you've done your homework on company information like company history, recent performance, their last year's profits and latest product launches. Nothing is as disappointing as when a candidate shows enthusiasm and then doesn't even know the most basic facts and figures about the company. So, where can you find all this information? The most likely place is the Internet. A visit to the company website could help you get all the vital statistics, including products and services as well as a feel of the company culture. You must also check out the annual report and look for a press or company news page. Put their name into a search engine to see if they've had any recent interesting stories written about them. It is also advisable to tap industry sources, trade journals, newspapers and other business publications to give you good background knowledge of the industry as well as the company.

Talk to people who work in the company or in similar companies / areas to gather as much information as you can about the nature of work, responsibilities, work culture and work requirements.

For the interview, you need to know your CV inside out. Go through your CV carefully and make notes on how you will elaborate or illustrate what you have stated. You need to be ready with examples from your experience to be able to substantiate all the claims you have made. Try to relate specific areas of your CV back to the job description. It will make it clear to the interviewer why they should hire you. Also go through the copy of your application carefully before the interview. The interview panel is likely to ask specific questions about it.

Going for a job interview is no different from going for an exam. It is important that you go well prepared and confident so that you can field any question that is put to you.

Before the Interview

Apart from finding out about the company and being thorough with your CV, it would be helpful to follow these tips:

- Make a rational assessment of yourself before you go for the interview. Know your strengths and weaknesses.
- Review your skills and abilities.
- Have a mock interview with a friend based on the common interview questions you're likely to face.
- If you are asked to bring certificates, references, etc, get them ready well in advance to avoid having to chase around them on the morning of the big day.
- If you have filled up a statement of purpose as part of the application, be ready for some probing questions based on this.
- Be sure you know the time, date and location of the interview.
- Decide how you will get there and when you need to set off to arrive in good time, anticipating any delays. Visit the place once beforehand if possible.
- If you look good, you tend to feel good too. Avoid any last minute panic by preparing what you're going to wear the night before.
- Don't go into the interview with lots of baggage - psychological or physical. Take the bare minimum with you so you can concentrate on the interview, and nothing else.
- Prepare at least 5 questions that you would like to ask the panel about the company or your job. You don't have to ask them all. See for yourself what is most appropriate to ask during the interview.

(a) What should be your state of mind when getting ready for a job interview? (2 Marks)

(b) Why do you need to do adequate homework about the company where you have been called for an interview? (2 Marks)

(c) What sort of information can you get about the company from the internet? (2 Marks)

(d) Going for an interview is just like going for an exam? Discuss. (2 Marks)

(e) Regarding the tips given in the passage which is the most useful for you and why. (2 Marks)

2. Find words from the passage that mean the same as the following: (10 Marks)

(a) The state of being prepared for something

(b) To the maximum

(c) To stand out

(d) Possible in the future

(e) Eagerness

(f) Most important

- (g) Give details
- (h) Objective and reasonable
- (i) Searching
- (j) Being aware of

3. Identify the part of the sentence which is grammatically incorrect: (5 Marks)

(1) Even in thick fog, (2) the tower of the Taj (3) can be seen clearly (4) and so do those of the Agra fort.

(1) The ship had sank (2) in the Pacific (3) before the distress signal (4) was sent.

(1) Rajiv drove (2) as fastly as he could (3) but failed to (4) overtake the train.

(1) I don't wish (2) to buy a new camera (3) as my old one (4) works perfect.

(1) The meanings of certain (2) difficult terms and phrases (3) are given (4) in the bottom of the page.

4. Rewrite these sentences beginning with the words given below. (5 Marks)

- (a) The crop have been destroyed due to heavy rainfall. Heavy rainfall.....
- (b) We will hold the meeting on 9th of this month. The meeting.....
- (c) The farm is being sold. They are
- (d) You are requested to maintain silence. Please
- (e) The college has organized an inter-school debate competition. An inter-school.....

5. Fill in the blanks with a/an, the or no article Ø. (10 Marks)

The larger meeting, the more difficult it becomes to reach at decision. ideal size of meeting depends on..... purpose of meeting. If..... meeting has been called to give..... information to the members, the number of participants do not matter. But if meeting has been called to take..... decision on any matter, it is advisable to call just..... few individuals for it.

All..... meetings have something in..... common. most important feature is agenda. The next is the role of Chairperson. efficient chairperson will adhere to agenda and time and focus only on..... purpose, and reaching desired objectives of the meeting.

6. Write short notes on the following: (10 Marks)

- (a) An effective meeting
- (b) How to overcome panic while presenting

7. Write an essay in 250 to 300 words on **any one** of the following: (20 Marks)

- The impact of internet on social communication
- Importance of body language
- An effective presentation

8. Mark the stress in the following words: (10 Marks)

examine examination
academic academician
favourite favoritism
exhibit exhibition
govern government

9. Write a conversation between you and your grandfather. Discuss how people have, over the years, changed the way they spend their leisure time. (10 Marks)

Grandfather: We would usually spend our leisure time reading a book or chatting with friends.

You:
(Take about ten turns).

10. Write a letter to a friend about your new job in an IT Company. Talk *(10 Marks)* about the type of work that you do and the satisfaction that you derive from it. Also talk about your colleagues. Write in about 150 words.

Course Code	:	MCSL-016
Course Title	:	Internet Concepts and Web Design (Lab Course)
Assignment Number	:	MCA(I)/L-016/Assignment/15-16
Maximum Marks	:	50
Weightage	:	25%
Last Dates for Submission	:	31st October, 2015 (For July 2015 Session) 30th April, 2016 (For January 2016 Session)

There are two questions in this assignment, which carries 40 marks. Rest 10 marks are for viva voce. You may use illustrations and diagrams to enhance the explanations. Please go through the guidelines regarding assignments given in the Programme Guide for the format of presentation. Submit the screenshots also along with the coding and documentation.

1. Create a website that provides information about historical tourist places around your city. Your site should include the following pages.

(30 Marks)

- (a) The *Home* page should consists of four areas containing the following information:
 - TOP area containing the name of your city and a photograph of a historical monument. Make sure that you use a good picture format.
 - LEFTMENU area containing the links to other pages - these links should include - *My City, List of Monuments, History of the City, Important Addresses and Feedback.*
 - The CONTENT area of this *Home* page should display information like population, and climatic conditions etc. about your city.
 - The COPYRIGHT area should display the copyright information and current date and time.

You need to make sure that the TOP, LEFT MENU and COPYRIGHT area is same across all the pages of the website.

- (b) *My City* page should give information about the objectives, festivals of the city etc. in some structured format in the CONTENT area. You may use lists or tables for the same.
- (c) *List of Monuments* page lists the names of important Monuments in the CONTENT area. These names should be hyperlinked to *History of City* page.
- (d) *History of City* page should highlight the history of city as well as important monuments in the CONTENT area.

- (e) *Important Addresses* page should provide information about the important Government and public offices in the CONTENT area.
 - (f) *Feedback* page should have a feedback form in the CONTENT area. This form should consist of at least one text box, radio buttons, list boxes etc. This page should get the feedback about the site. You must use JavaScript to check that all the required fields are filled by the visitor.
2. Write a program using VBscript that subtracts two matrices. (This (10 Marks) program is NOT a part of website, therefore, should be created separately.)

Course Code	:	MCSL-017
Course Title	:	C and Assembly Language Programming (Lab Course)
Assignment Number	:	MCA(I)/L-017/Assignment/15-16
Maximum Marks	:	100
Weightage	:	25%
Last Dates for Submission	:	31st October, 2015 (For July 2015 Session) 30th April, 2016 (For January 2016 Session)

This assignment has two sections. Answer all questions in each section. Each Section is of 20 marks. Your Lab Records will carry 40 Marks. Rest 20 marks are for viva voce. You may use illustrations and diagrams to enhance the explanations. Please go through the guidelines regarding assignments given in the programme guide for the format of presentation.

Section 1: C Programming Lab

1. Write an interactive program in C language to create an application program which generates the telephone bills. It stores various details of users Telephone Number, Name, Address, No. of calls, local or STD/ISD call. Compute the amount to be paid if the charges per local call is Rs. 2/- and for STD/ISD call is Rs. 5/-. It should have feature of searching the customer records using the telephone number. The application should be designed user-friendly. *(20 Marks)*

Note: You must execute the program and submit the program logic, sample input and output along with the necessary documentation for this question. Assumptions can be made wherever necessary.

Section 2: Assembly Language Programming Lab

1. (a) Write a program in assembly language to find the largest of 3 numbers. *(5 Marks)*
 (b) Develop and execute an assembly language program to reverse the given number and check if the number is palindrome. *(5 Marks)*
 (c) Write a program in assembly language to find the Square of a given number. *(5 Marks)*
 (d) Write a program in assembly language find the perimeter of a rectangle. *(5 Marks)*