Xi'an Jiaotong-Liverpool University



MODULE CODE	EXAMINER	DEPARTMENT	TEL
CPT101		COMPUTER SCIENCE	

1st SEMESTER 2022/23 RESIT EXAMINATIONS

BACHELOR DEGREE - Year 2

COMPUTER SYSTEMS

TIME ALLOWED: 2 Hours

INSTRUCTIONS TO CANDIDATES

- 1. This is an open-book exam.
- 2. Answer all questions.
- 3. Answers should be written in the answer booklet(s) provided.
- 4. No calculator is allowed during the examination.
- 5. Only answers in English are accepted.

THIS PAPER MUST NOT BE REMOVED FROM THE EXAM HALL.

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28. (20 marks) Supply correct arguments and instructions to the missing places (i) to (x) in the following program segment that ensures the user enter a number greater than 10 otherwise the program requests the user to input again.

```
1
     int number;
     (1) format[] = "%d";
2
3
     asm{
     (ii) Yead Number
4
      (iii) ** ax, number; load number's memory address
5
                  ; push onto stack
6
      push eax
      lea ebx, (iv) format
7
      8
      call (vi) Scent; read user input
9
      add esp, (viii); return stack pointer
mov eax, (viii) hove user input into eax
10
11
      cmp eax, (ix) | o \rangle; compare with set condition
12
      (x) readNumber ; jump if condition not met
13
     } Jle
14.
```

END OF PAPER