

Assessment sub
X<https://swayam.gov.in>https://swayam.gov.in/nc_details/NPTEL

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NPTEL (<https://swayam.gov.in/explorer?ncCode=NPTEL>) » Compiler Design (course)Course
outlineHow does an
NPTEL
online
course
work? ()

Week 0 : ()

Week 1 ()

Week 2 ()

Week 3 ()

Week 4 ()

Week 5 ()

Week 6 ()

Week 7 ()

Week 8 ()

Week 9 ()

Week 10 ()

☐ Lecture 47 :
Runtime
Environment
(unit?
unit=90&lesson=91)☐ Lecture 48 :
RuntimeThank you for taking the Week 10
: Assignment 10.

Week 10 : Assignment 10

Your last recorded submission was on 2022-04-05, 21:22 Due date: 2022-04-06, 23:59 IST.

1) Access link points to the 1 point

- a. Current activation record
- b. Parent activation record
- c. Child activation record
- d. None of the other options

- ☐ a
- ☐ b
- ☐ c
- ☒ d

2) 1 point

A program has three procedures in it. The procedures may be called from the main program. A procedure may call others also in a nested fashion, but no recursion is present. If the activation records are created statically, number of activation records to be created is

- a. 3
- b. 4
- c. 9
- d. None of the other options

- ☐ a
- ☒ b
- ☐ c
- ☐ d

Environment
 (Contd.) (unit?
 unit=90&lesson=92)

☐ Lecture 49 :
 Runtime
 Environment
 (Contd.) (unit?
 unit=90&lesson=93)

☐ Lecture 50 :
 Intermediate
 Code
 Generation
 (unit?
 unit=90&lesson=94)

☐ Lecture 51 :
 Intermediate
 Code
 Generation
 (Contd.) (unit?
 unit=90&lesson=95)

☐ Lecture
 Material (unit?
 unit=90&lesson=96)

☒ **Quiz: Week
 10 :
 Assignment
 10
 (assessment?
 name=158)**

☐ Feedback
 Form (unit?
 unit=90&lesson=97)

Week 11 ()

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- 3) **Frame pointer points to the**
- Current activation record
 - Parent activation record
 - Child activation record
 - None of the other options

☒ a
☐ b
☐ c
☐ d

1 point

- 4) **Control link points to the**
- Parent activation record
 - Current activation record
 - Child activation record
 - None of the other options

☒ a
☐ b
☐ c
☐ d

1 point

- 5) **Which of the following is NOT possible to realize if activation record is static**
- Passing parameters
 - Supporting recursion
 - Creating local variables
 - None of the other options

☐ a
☒ b
☐ c
☐ d

1 point

- 6) **“Display” helps to locate easily**
- Global variables
 - Non-local variables
 - Local variables
 - All of the other options

☐ a
☒ b
☐ c
☐ d

1 point

Assessment submitted.

X

7) Intermediate code generation for a compiler is

1 point

- a. Must
- b. Optional
- c. Depends on language
- d. None of the other options

- ☐ a
- ☒ b
- ☐ c
- ☐ d

8)

1 point

If pointer is supported in the high-level language,

- a. Depends on language.
- b. May not be supported in the intermediate language
- c. Must also be supported in the intermediate language
- d. None of the other options

- ☐ a
- ☐ b
- ☒ c
- ☐ d

9) An intermediate language should be

1 point

- a. Close to target machine
- b. Machine independent
- c. All operators of high-level language supported
- d. All of the other options

- ☐ a
- ☐ b
- ☐ c
- ☒ d

10) P-code is used for

1 point

- a. Accumulator based machine
- b. Stack-based machine
- c. Two operand addresses
- d. None of the other options

- ☐ a
- ☒ b
- ☐ c
- ☐ d

11)

1 point

Assessment submitted.

X

For three address code generation of "B B1 and M B2", the code fragment corresponding nonterminal M

- a. Is an empty string
- b. Contains only Boolean operators
- c. Contains only operands
- d. None of the other options

☒ a

☐ b

☐ c

☐ d

12)

1 point

In the activation record, local variables can be accessed from frame pointer with offset value

- a. Negative
- b. Positive
- c. May be positive or negative
- d. Cannot be accessed

☒ a

☐ b

☐ c

☐ d

You may submit any number of times before the due date. The final submission will be considered for grading.

Submit Answers