Assignment 6

The due date for submitting this assignment has passed.

As per our records you have not submitted this assignment.

Due on 2021-03-03, 22:59 IST.

1. Which of the following function(s) builds a vector for a particular vector implementation?
   - VecGetType
   - VecSetFromOptions
   - VecCreate
   - None of the above
   Score: 0
   Accepted Answers:
   - VecGetType

2. Which of the following function is used to get the vector type name as a string from the object? Use?
   - VecGetType
   - VecSetFromOptions
   - VecCreate
   - VecDestroy
   Score: 0
   Accepted Answers:
   - VecGetType

3. Which of the following function is used to configure the vector from the options database?
   - VecSetType
   - VecSetFromOptions
   - VecCreate
   - VecDestroy
   Score: 0
   Accepted Answers:
   - VecSetOptions

4. Which of the following function used in PETScs to insert or add a block of values into a matrix?
   - MatSetType
   - MatSetFromOptions
   - MatCreate
   - MatSetValues
   Score: 0
   Accepted Answers:
   - MatSetValues

5. Which function in PETScs returns a pointer to the element values in the matrix?
   - MatGetType
   - MatSetType
   - MatCreate
   - MatSetValues
   Score: 0
   Accepted Answers:
   - MatGetValues

6. Which is an abstract PETSc object that manages of Krylov methods?
   - Krylov
   - SNES
   - PC
   - TS
   Score: 0
   Accepted Answers:
   - Krylov

7. Which is an abstract PETSc object that manages of non-linear solvers?
   - SNES
   - Krylov
   - TS
   - PC
   Score: 0
   Accepted Answers:
   - SNES

8. To compute y=x + beta y in PETSc which function needs to be used?
   - VecAXPY
   - VecAXPY?
   - VecAXPY
   - VecAXPY?
   Score: 0
   Accepted Answers:
   - VecAXPY

9. Which is an abstract PETSc object that manages of time-stepers (ODE integration)?
   - SNES
   - Krylov
   - PC
   - TS
   Score: 0
   Accepted Answers:
   - TS

10. Which PETSc object is used to manage data for a structured grid in 1, 2, or 3-dimensions?
    - DMASA
    - DMDA
    - DMDA
    - None of the above
    Score: 0
    Accepted Answers:
    - DMDA

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