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Code No. : 14607TS O

VASAVI COLLEGE OF ENGINEERING (Autonomous), HYDERABAD
B.E. (I.T.) II Year II-Semester Old Examinations, May-2018

Finishing School-II : Technical Skills

Time: 1½ hours

Max. Marks: 35

Note: Answer ALL questions in Part-A and any FIVE from Part-B

Part-A (5 × 2 = 10 Marks)

1. Can a repeating module be represented in a structure chart? If so provide an example of the same.
2. Define a 'rule' in the context of GNU make. Also give an example.
3. List any two common functions of a debugger.
4. State the role of a 'Perspective' in the context of Eclipse IDE. Also give an example.
5. Write the steps to run a C project in Eclipse.

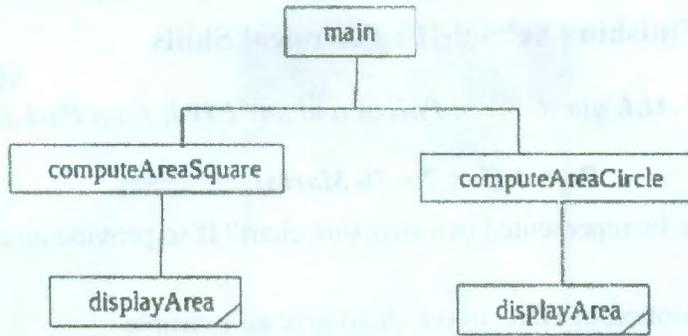
Part-B (5 × 5 = 25 Marks)

6. a) Design a structure chart for the following code [3]

```
void main()
{
    Beta();
}
void Beta(){
    Gamma();
}
void Gamma(){
    print("hello\n");
}
```
- b) State the role of a 'module' in the structure chart. Also list any one rule which is associated with modules of a structure charts. [2]
7. a) Differentiate between a target and a phony target. [2]
- b) Analyze the below code to and identify the target(s), prerequisite(s) and recipe(s) [3]

```
abc.o : abc.c def.h
gcc -o abc.o abc.c
```
8. a) Write a gcc command which adds an extra symbol information required by GDB for debugging purpose. Assume that the source code to be compiled is in "abc.c" file. [1]
- b) Illustrate the two ways through which breakpoints can be set using GDB. [4]
9. a) Explain about any four concepts related to Eclipse IDE. [4]
- b) List any two softwares which are required for acquiring GNU tool chain in windows. [1]
10. a) Differentiate between building a project and cleaning a project and how these procedures are supported in Eclipse. [4]
- b) _____ libraries are .so (or in Windows .dll, or in OS X .dylib) files. All the code relating to the library is in this file, and it is referenced by programs using it at run-time. [1]

11. a) Write a C program containing the function declarations and definitions for the following structure chart: [3]



b) Given the description of source files and their dependencies. [2]

- * AreaSquare.c contains function definition of computeAreaSquare function which calls a function displayArea
- * AreaCircle.c contains function definition of computeAreaCircle function which calls a function displayArea
- * displayArea.c which contains function definition of displayArea function.
- * headers.h contains function declarations of all the functions.

Write a make file to build an application. The name of the executable file should be area.exe

12. Answer any *two* of the following:

- a) List any five GDB commands. [2½]
- b) Distinguish between a shared and a static library. [2½]
- c) Describe the process of building a C/C++ project in Eclipse. [2½]

