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**COMPUTER SCIENCE PAPER - II : UG-CS-122**  
**C Programming - II**  
**(124202)**

P. Pages : 4

Time : Two Hours

Max. Marks : 60

**Instructions to Candidates :**

1. Do not write anything on question paper except Seat No. \*
2. Graph or diagram should be drawn with the black ink pen being used for writing paper or black HB pencil.
3. Students should note, no supplement will be provided.
4. Write a C language code as a example wherever necessary.
5. Figures to the right indicate full marks.
6. All questions are compulsory.

1. a) Attempt any six.

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- a) In passing argument by reference, the variables of formal parameters must be prefix with.....
 

i) &	ii) *
iii) *	iv) %
- b) Pointer is a variable which holds..... of another variable.
 

i) Address	ii) Index
iii) Value	iv) None of these
- c) A..... is a collection of data items under one name in which the items share the same storage.
 

i) Array	ii) Structure
iii) Pointer	iv) Union
- d) The graphics function which gives current location of file pointer in the file is.....
 

i) fseek()	ii) ftell()
iii) rewind()	iv) feof()
- e) If a local variable has to hold it's value between calls to the function it must be declared as.....
 

i) Auto	ii) Register
iii) Static	iv) Extern

- f) ..... can also be used to access the members of the structure.
- |                |                   |
|----------------|-------------------|
| i) Arrays      | ii) Pointers      |
| iii) Functions | iv) None of these |
- g) To plot a single •(dot) on screen you have to use..... graphics function.
- |                  |                |
|------------------|----------------|
| i) getpixel()    | ii) getmaxx()  |
| iii) initgraph() | iv) putpixel() |
- h) The mode ..... is used for opening a file for updating.
- |             |                   |
|-------------|-------------------|
| i) Read     | ii) Write         |
| iii) Append | iv) None of these |

b) Attempt any six.

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- a) What happens when actual arguments in function call are less than formal arguments in a function ?
- b) Explain meaning and purpose of size of operator.
- c) Consider the following declarations :  
`int x = 10, y = 10; int *p1 = &x, *p2 = &y;` What is value of the expression `++(*p2) - *p1` ;?
- d) How to initialise graphics in C ?
- e) What is significance of EOF ?
- f) Write syntax and purpose of graphics function `line()`.
- g) A function to divide two floating point numbers is :  
`divide (float x, float y)`  
`{`  
`return (x/y) ;`  
`}`  
 what will be value of following function call :  
`divide (4.5, 1.5) ;`
- h) How does a structure differs from an array ?

2. Attempt any six.

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- a) Write a C statements that allocate a memory to a float variable eight times the size of float.
- b) Which arithmetic operators are permitted on pointers ?
- c) Write syntax and purpose of graphics function `outtextxy()`.



