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# NOIDA INSTITUTE OF ENGINEERING AND TECHNOLOGY, GREATER NOIDA
### (An Autonomous Institute)
### Affiliated to Dr. A.P.J. Abdul Kalam Technical University, Uttar Pradesh, Lucknow
### B.TECH
### FIRST YEAR (SEMESTER-II) THEORY EXAMINATION (2020-2021)
### (Objective Type)

**Subject Code: ACSE0201**

**Subject: Programming for Problem Solving using C**

**General Instructions:**

*All questions are compulsory.*

*Question No- 1 to 15  are objective type question carrying 2 marks each.*

*Question No- 16 to 35 are also objective type/Glossary based question carrying 2 marks each.*

**Max. Mks. : 70**

**Time       : 70 Minutes**

| Q.No | Question Content | Question Image | Category | Sub Category | Marks | Type | Difficulty | Correct | Option1 | Option2 | Option3 | Option4 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Which one is the result of the output given by a computer | | Single Choice Questions | Single Choice Questions | 2 | Single Choice | Smart | Information | Data | Instruction | Information | Excursion |
| 2 | The decimal equivalent of (0.101) base 2 will be | | Single Choice Questions | Single Choice Questions | 2 | Single Choice | Smart | 0.625 | 0.5 | 0.625 | 0.25 | 0.875 |
| 3 | Arrange in descending order the units of memory TB, KB, GB, MB | | Single Choice Questions | Single Choice Questions | 2 | Single Choice | Brilliant | TB>GB>MB>KB | TB>MB>GB>KB | MB>GB>TB>KB | TB>GB>MB>KB | GB>MB>KB>TB |
| 4 | Which is correct with respect to size of the data types? | | Single Choice Questions | Single Choice Questions | 2 | Single Choice | Brilliant | char < int < double | char > int > float | int > char > float | char < int < double | double > char > int |
| 5 | An operator used to check a condition and select a value depending on the value of the condition is called | | Single Choice Questions | Single Choice Questions | 2 | Single Choice | Smart | Conditional or Ternary operator | Logical operator | Decrement operator | Conditional or Ternary operator | Bitwise operator |
| 6 | What is sizeof() in C? | | Single Choice Questions | Single Choice Questions | 2 | Single Choice | Genius | Operator | Operator | Function | Macro | None of these |
| 7 | What will be the output of the following code ?void main() {int i=0;      do      {      printf(“while vs do-while”);      } while(i==0);    printf(“out of loop”); } | | Single Choice Questions | Single Choice Questions | 2 | Single Choice | Brilliant | "while vs do-while" infinite times | "while vs do-while"once | "Out of loop" infinite times | Both "while vs do-while" and "Out of loop" once | "while vs do-while" infinite times |
| 8 | The advantage of ‘switch’ statement over ‘if’ is that it leads to more structured program | | Single Choice Questions | Single Choice Questions | 2 | Single Choice | Smart | FALSE | TRUE | FALSE | | |
| 9 | Which loop is faster in C Language, for, while or do While? | | Single Choice Questions | Single Choice Questions | 2 | Single Choice | Brilliant | All work at same speed | for | do-while | while | All work at same speed |
| 10 | Which of the following is true about return type of functions in C? | | Single Choice Questions | Single Choice Questions | 2 | Single Choice | Genius | Functions can return one value | Functions can return one value | Functions can return more than one value | Functions can return whole array | None of the above |
| 11 | The default parameter passing mechanism is | | Single Choice Questions | Single Choice Questions | 2 | Single Choice | Brilliant | Call by value | Call by value | call by reference | call by value result | None of the mentioned |
| 12 | In C, Array index always start from | | Single Choice Questions | Single Choice Questions | 2 | Single Choice | Smart | 0 | 0 | 2 | 1 | 3 |
| 13 | Which of the following true about FILE *fp? | | Single Choice Questions | Single Choice Questions | 2 | Single Choice | Brilliant | FILE is a structure and fp is a pointer to the structure of FILE type | FILE is a keyword in C for representing files and fp is a variable of FILE type | FILE is a stream | FILE is a buffered stream | FILE is a structure and fp is a pointer to the structure of FILE type |
| 14 | FILE reserved word is? | | Single Choice Questions | Single Choice Questions | 2 | Single Choice | Genius | It is a type name defined in stdio.h | A structure tag declared in stdio.h | One of the basic datatypes in c | Pointer to the structure defined in stdio.h | It is a type name defined in stdio.h |
| 15 | Where is a file temporarily stored before read or write operation in C language? | | Single Choice Questions | Single Choice Questions | 2 | Single Choice | Brilliant | Buffer | Notepad | RAM | Hard disk | Buffer |

| Q.No | Question Content | Question Image | Category | Sub Category | Marks | Type | Difficulty | Correct | Option1 | Option2 | Option3 | Option4 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | _____ symbol is used to represent start / stop in flow chart | | Glossary I | Glossary I | 2 | Single Choice | Smart | oval | rectangle | diamond | parallelogram | oval |
| 17 | _____ symbol is used to give condition in flow chart. | | Glossary I | Glossary I | 2 | Single Choice | Smart | diamond | rectangle | diamond | parallelogram | oval |
| 18 | _____ symbol is used for getting input and displaying output in flow chat. | | Glossary I | Glossary I | 2 | Single Choice | Smart | parallelogram | rectangle | diamond | parallelogram | oval |
| 19 | _____ symbol is used for processing | | Glossary I | Glossary I | 2 | Single Choice | Smart | rectangle | rectangle | diamond | parallelogram | oval |
| 20 | _____ is the memory size of long int. | | Glossary II | Glossary II | 2 | Single Choice | Smart | 4 B | 1 B | 2 B | 4 B | 8 B |
| 21 | _____ is the memory size of unsigned int. | | Glossary II | Glossary II | 2 | Single Choice | Smart | 2 B | 1 B | 2 B | 4 B | 8 B |
| 22 | _____ is the memory size of double. | | Glossary II | Glossary II | 2 | Single Choice | Smart | 8 B | 1 B | 2 B | 4 B | 8 B |
| 23 | _____ is the memory size of char. | | Glossary II | Glossary II | 2 | Single Choice | Smart | 1 B | 1 B | 2 B | 4 B | 8 B |
| 24 | The reference operator noted by  _____ | | Glossary III | Glossary III | 2 | Single Choice | Brilliant | ("&amp;") | break | do while | ("&amp;") | ("*") |
| 25 | The dereference operator or indirection operator, noted by _____ | | Glossary III | Glossary III | 2 | Single Choice | Brilliant | ("*") | break | do while | ("&amp;") | ("*") |
| 26 | _____ loop is guranteed to execute atleast once | | Glossary III | Glossary III | 2 | Single Choice | Brilliant | do while | break | do while | ("&amp;") | ("*") |
| 27 | _____ terminates the execution of loop statement | | Glossary III | Glossary III | 2 | Single Choice | Brilliant | break | break | do while | ("&amp;") | ("*") |
| 28 | _____ are defined in a function and can be used in that function only | | Glossary IV | Glossary IV | 2 | Single Choice | Brilliant | local variable | call by reference | call by value | local variable | global variable |
| 29 | While calling a function we pass values of variables to it, Such functions are known as_____ | | Glossary IV | Glossary IV | 2 | Single Choice | Brilliant | call by value | call by reference | call by value | local variable | global variable |
| 30 | _____are defined outside a function, usually on top of the program. | | Glossary IV | Glossary IV | 2 | Single Choice | Brilliant | global variable | call by reference | call by value | local variable | global variable |
| 31 | While calling a function, instead of passing the values of variables, we pass address of variables(location of variables) to the function known as_____ | | Glossary IV | Glossary IV | 2 | Single Choice | Brilliant | call by reference | call by reference | call by value | local variable | global variable |
| 32 | _____ is a data structure for storing a fixed number of elements | | Glossary V | Glossary V | 2 | Single Choice | Genius | file | data | record | file | information |
| 33 | _____represents a sequence of bytes, regardless of it being a text file or a binary file | | Glossary V | Glossary V | 2 | Single Choice | Genius | record | data | record | file | information |
| 34 | _____ is a set of data which is processed in a meaningful way according to the given requirement. | | Glossary V | Glossary V | 2 | Single Choice | Genius | information | data | record | file | information |
| 35 | _____ is a set of entity that hasn't been processed yet by machine nor human. | | Glossary V | Glossary V | 2 | Single Choice | Genius | data | data | record | file | information |