

**NADAR SARASWATHI COLLEGE OF ENGINEERING AND TECHNOLOGY, THENI.**

<b>Course/Branch</b> : B.E/ECE	<b>Year / Semester</b> :II/III	<b>Format No.</b>	NAC/TLP-07a.13
<b>Subject Code</b> :EC8393	<b>Subject Name</b> :Fundamentals of Data Structures in C	<b>Rev. No.</b>	02
<b>Unit No</b> :2	<b>Unit Name</b> : Functions, Pointers, Structures And Unions	<b>Date</b>	30.09.2020

**OBJECTIVE TYPE QUESTION BANK**

<b>S. No.</b>	<b>Objective Questions (MCQ /True or False / Fill up with Choices )</b>	<b>BTL</b>
1.	<p>What will be the output of the following C code?</p> <pre> 1. #include &lt;stdio.h&gt; 2. int main() 3. { 4.     void foo(); 5.     printf("1 "); 6.     foo(); 7. } 8. void foo() 9. { 10.         printf("2 "); 11.     }</pre> <p>a) 1 2 b) Compile time error c) 1 2 1 2 d) Depends on the compiler</p>	L2
2.	<p>What will be the output of the following C code?</p> <pre> 1. #include &lt;stdio.h&gt; 2. void m(); 3. void n() 4. { 5.     m(); 6. } 7. void main() 8. { 9.     void m() 10.         { 11.             printf("hi"); 12.         } 13.     }</pre> <p>a) hi b) Compile time error c) Nothing d) Varies</p>	L4
3.	<p>Which of the following is a correct format for declaration of function?</p> <p>a) <b>return-type function-name(argument type);</b> b) return-type function-name(argument type){ } c) return-type (argument type)function-name; d) all of the mentioned</p>	L5
4.	<p>Which of the following function declaration is illegal?</p> <p>a) int 1bhk(int); b) int 1bhk(int a);</p>	L1

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	<p>c) int 2bhk(int*, int []);  <b>d) all of the mentioned</b></p>	
5.	<p>The value obtained in the function is given back to main by using _____ keyword.  <b>a) return</b>                  b) static                  c) new                  d) volatile</p>	L3
6.	<p>What will be the output of the following C code (after linking to source file having definition of ary1)?</p> <pre style="background-color: #f0f0f0; padding: 10px;">                 1. #include &lt;stdio.h&gt;                 2. int main()                 3. {                 4.     extern ary1[];                 5.     printf("%d\n", ary1[0]);                 6. }</pre> <p>a) Value of ary1[0];                  b) Compile time error due to multiple definition                  c) Compile time error because size of array is not provided  <b>d) Compile time error because datatype of array is not provided</b></p>	L5
7.	<p>What is the return-type of the function sqrt()?                  a) int                  b) float  <b>c) double</b>                  d) depends on the data type of the parameter</p>	L1
8.	<p>What is #include &lt;stdio.h&gt;?  <b>a) Preprocessor directive</b>                  b) Inclusion directive                  c) File inclusion directive                  d) None of the mentioned</p>	L1
9.	<p>Which directory the compiler first looks for the file when using #include?                  a) Current directory where program is saved  <b>b) C:COMPILERINCLUDE</b>                  c) S:SOURCEHEADERS                  d) Both C:COMPILERINCLUDE and S:SOURCEHEADERS simultaneously</p>	L1
10.	<p>Can function definition be present in header files?  <b>a) Yes</b>                  b) No                  c) Depends on the compiler                  d) Depends on the standard</p>	L3
11.	<p>Which data type can be stored in register?                  a) int                  b) long                  c) float  <b>d) all of the mentioned</b></p>	L5
12.	<p>What will be the output of the following C code?</p>	L5

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		<pre> 1. #include &lt;stdio.h&gt; 2. #define foo(m, n) " m ## n " 3. int main() 4. { 5.     printf("%s\n", foo(k, l)); 6. }</pre> <p>a) k l b) kl c) Compile time error <b>d) m ## n</b></p>	
13.		<p>What will be the output of the following C code?</p> <pre> 1. #include &lt;stdio.h&gt; 2. void main() 3. { 4.     static int x; 5.     printf("x is %d", x); 6. }</pre> <p>a) 0 b) 1 c) Junk value d) Run time error</p>	L4
14.		<p>What will be the output of the following C code?</p> <pre> 1. #include &lt;stdio.h&gt; 2. int main() 3. { 4.     int i = 10; 5.     void *p = &amp;i; 6.     printf("%d\n", (int)*p); 7.     return 0; 8. }</pre> <p>a) <b>Compile time error</b> b) Segmentation fault/runtime crash c) 10 d) Undefined behaviour</p>	L5
15.		<p>Comment on the following pointer declaration.</p> <pre>int *ptr, p;</pre> <p>a) <b>ptr is a pointer to integer, p is not</b> b) ptr and p, both are pointers to integer c) ptr is a pointer to integer, p may or may not be d) ptr and p both are not pointers to integer</p>	L1

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16.	<p>What will be the output of the following C code?</p> <pre style="background-color: #f0f0f0; padding: 10px;"> 1.  #include &lt;stdio.h&gt; 2.  int main() 3.  { 4.      int *ptr, a = 10; 5.      ptr = &amp;a; 6.      *ptr += 1; 7.      printf("%d,%d\n", *ptr, a); 8.  }</pre> <p>a) 10,10 b) 10,11 c) 11,10 <b>d) 11,11</b></p>	L3
17.	<p>What will be the output of the following C code?</p> <pre style="background-color: #f0f0f0; padding: 10px;"> 1.  #include &lt;stdio.h&gt; 2.  void main() 3.  { 4.      char *a[10] = {"hi", "hello", "how"}; 5.      int i = 0; 6.      for (i = 0; i &lt; 10; i++) 7.          printf("%s", *(a[i])); 8.  }</pre> <p>a) segmentation fault b) hi hello how followed by 7 null values c) 10 null values d) depends on compiler</p>	L4
18.	<p>What will be the output of the following C code on a 32-bit system?</p> <pre style="background-color: #f0f0f0; padding: 10px;"> 1.  #include &lt;stdio.h&gt; 2.  void main() 3.  { 4.      char *a[10] = {"hi", "hello", "how"}; 5.      printf("%d\n", sizeof(a)); 6.  }</pre> <p>a) 10 b) 13 c) Run time error <b>d) 40</b></p>	L2
19.	<p>What will be the output of the following C code?</p> <pre style="background-color: #f0f0f0; padding: 10px;"> 1.  #include &lt;stdio.h&gt; 2.  void main() 3.  { 4.      int k = 5;</pre>	L1

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		<pre> 5.   int *p = &amp;k; 6.   int **m = &amp;p; 7.   printf("%d%d%d\n", k, *p, **m); 8.   }                 </pre> <p>a) 5 5 5 b) 5 5 junk value c) 5 junk junk d) Run time error</p>	
20.		<p>Which of the following are themselves a collection of different data types?</p> <p>a) string b) <b>structures</b> c) char d) all of the mentioned</p>	L2
21.		<p>Which of the following cannot be a structure member?</p> <p>a) Another structure b) <b>Function</b> c) Array d) None of the mentioned</p>	L1
22.		<p>What will be the output of the following C code?</p> <pre> 1.  #include &lt;stdio.h&gt; 2.  void main() 3.  { 4.      struct student 5.      { 6.          int no; 7.          char name[20]; 8.      }; 9.      struct student s; 10.         s.no = 8; 11.         printf("%d", s.no); 12.     }                 </pre> <p>a) Nothing b) Compile time error c) Junk d) <b>8</b></p>	L2
23.		<p>How many bytes in memory taken by the following C structure?</p> <pre> 1.  #include &lt;stdio.h&gt; 2.  struct test 3.  { 4.      int k; 5.      char c; 6.  };                 </pre> <p>a) <b>Multiple of integer size</b> b) integer size+character size c) Depends on the platform</p>	L4

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	d) Multiple of word size		
24.	<p>What will be the output of the following C code?</p> <pre style="background-color: #f0f0f0; padding: 10px;"> 1. #include &lt;stdio.h&gt; 2. struct p 3. { 4.     int k; 5.     char c; 6. }; 7. int p = 10; 8. int main() 9. { 10.         struct p x; 11.         x.k = 10; 12.         printf("%d %d\n", x.k, p); 13.     }</pre> <p>a) Compile time error  <b>b) 10 10</b>  c) Depends on the standard  d) Depends on the compiler</p>	L5	
25.	<p>The size of a union is determined by the size of the _____</p> <p>a) First member in the union  b) Last member in the union  <b>c) Biggest member in the union</b>  d) Sum of the sizes of all members</p>	L1	
26.	<p>Which of the following uses structure?</p> <p>a) Array of structures  b) Linked Lists  c) Binary Tree  <b>d) All of the mentioned</b></p>	L1	
27.	<p>What is the correct syntax to declare a function foo() which receives an array of structure in function?</p> <p><b>a) void foo(struct *var);</b>  b) void foo(struct *var[]);  c) void foo(struct var);  d) none of the mentioned</p>	L1	
28.	<p>Members of a union are accessed as _____</p> <p>a) union-name.member  b) union-pointer-&gt;member  <b>c) both union-name.member &amp; union-pointer-&gt;member</b>  d) none of the mentioned</p>	L3	
29.	<p>Which member of the union will be active after REF LINE in the following C code?</p> <pre style="background-color: #f0f0f0; padding: 10px;"> 1. #include &lt;stdio.h&gt; 2. union temp 3. { 4.     int a;</pre>	L1	

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	<pre> 5.   float b; 6.   char c; 7.   }; 8.   union temp s = {1,2,5,'A'}; //REF LINE </pre> <p>a) a b) b c) c d) Such declaration are illegal</p>	
30.	<p>What would be the size of the following union declaration? (Assuming size of double = 8, size of int = 4, size of char = 1)</p> <pre> 1.   #include &lt;stdio.h&gt; 2.   union uTemp 3.   { 4.     double a; 5.     int b[10]; 6.     char c; 7.   }u; </pre> <p>a) 4 b) 8 c) <b>40</b> d) 80</p>	L2

