Chap 5 FUNCTIONS

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1.O/p?
main()
 int a,b;
 a=sumdig(123);
 b=sumdig(123);
 printf("%d %d",a,b);
sumdig(int n)
 static int s=0;
 int d;
 if(n!=0)
 d=n\% 10;
 n=(n-d)/10;
 s=s+d;
 sumdig();
else
  return(s);
ans: 6 12;
2. What error would the following function give on compilation.
F(int a,int b)
int a;
a=20;
return a;
a .missing parenthesis in return statement.
B. The function should be defined as int f(int a,int b)
C . Redeclaratin of a.
d. None of above.
Ans: C.
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3. Thee is a mistake in the following code. Add a statement in it to remove it.
Main()
int a;
a=f(10,3.14);
printf("%d",a);
f(int aa,float bb)
return((float(aa)+bb);
ans: Add the following function prototype in main()
 float f(int aa,float bb);
4. Point error in the following code.
Main()
int a=10;
void f();
a=f();
printf("%d",a);
void f()
printf("HI");
ans. In spite of decelerating that the function will return void the program is
trying to collect the value in a variable.
5. Point error if any
main()
int b;
b=f(20);
printf("%d",b);
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int f(int a)
 a>20?return(10):return(20);
ans: Return statement can not be used in format as shown in the conditional
operator instead it should be as follows
  return(a>20?10:20);
6. A function can not be defined inside another function. <true/false>
ans: True.
7. Will the following function work?<yes/no>
f1(int a, int b)
  return(f2(20));
f2(int a)
return(a*a);
ans:YES.
8. What are following two notations of defining functions commonly known as
int f(int a, float b)
 /* some code */
int f(a,b)
int a, float b;
 /* some code */
ans: The first one is known as ANSI notation. And the second one is known as
Kernighan and Ritche, or simply K & R notation
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9.In function two return statements should not occuar. <True/False>

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10. In a function two return statements should not occur successively.
<True/False>
ans: TRUE.
11.In C all functions except main() can be called recursively.
Ans:FALSE. Any function including main() can be called recursively.
12. Usually recursion works slower than loops. <True/False>
ans: TRUE.
13.Is it true that too many recursive calls may result in stack overflow?
Ans TRUE.
14. How many times the following program prints 'Jambaree'?
main()
printf("\n Jambaree");
main();
a. infinite.
b. 32767 times
c. 65535 times
d. Till stack doesn't overflow.
```

Ans: D

ans: FALSE.