

Subject : C Language (sub code CA-103 CBCS 2019 Pattern)

Class : F.Y. BBA(CA)

UNIT 1 : Introduction to C Language

1. Which of the following is not a valid variable name declaration?

- a) int ____a3;
- b) int ____3a;
- c) int _____A3;
- d) None of the mentioned

Answer: d

- 2. Which of the following is not a valid variable name declaration?
- a) int _a3;
- b) int a_3;
- c) int 3_a;
- d) int _3a

Answer: c

- 3. Why do variable names beginning with the underscore is not encouraged?
- a) It is not standardized
- b) To avoid conflicts since assemblers and loaders use such names
- c) To avoid conflicts since library routines use such names
- d) To avoid conflicts with environment variables of an operating system

Answer: c

- 4. All keywords in C are in _____
- a) LowerCase letters
- b) UpperCase letters
- c) CamelCase letters
- d) None of the mentioned

Answer: a

5. Variable name resolution (number of significant characters for the uniqueness of variable) depends on

- a) Compiler and linker implementations
- b) Assemblers and loaders implementations
- c) C language
- d) None of the mentioned

Answer: a

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 6. Which of the following is not a valid C variable name? a) int number; b) float rate; c) int variable_count; d) int \$main;
Answer: d
7. Which of the following is true for variable names in C?a) They can contain alphanumeric characters as well as special charactersb) It is not an error to declare a variable to be one of the keywords(like goto, static)c) Variable names cannot start with a digitd) Variable can be of any length
Answer: c
 8. What is short int in C programming? a) The basic data type of C b) Qualifier c) Short is the qualifier and int is the basic data type d) All of the mentioned
Answer: c
 9. The format identifier '%i' is also used for data type. a) char b) int c) float d) double
Answer: b
10. Which data type is most suitable for storing a number 65000 in a 32-bit system?a) signed shortb) unsigned shortc) longd) int
Answer: b
 11. Which of the following is a User-defined data type? a) typedef int Boolean; b) typedef enum {Mon, Tue, Wed, Thu, Fri} Workdays; c) struct {char name[10], int age};

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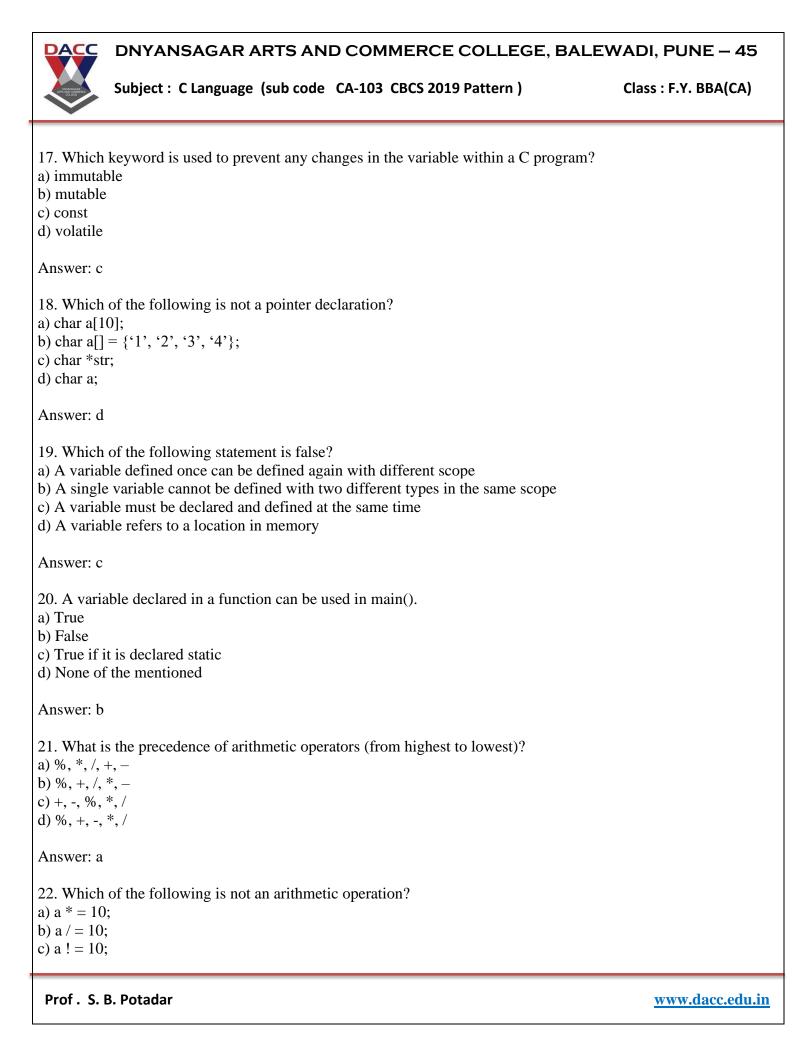




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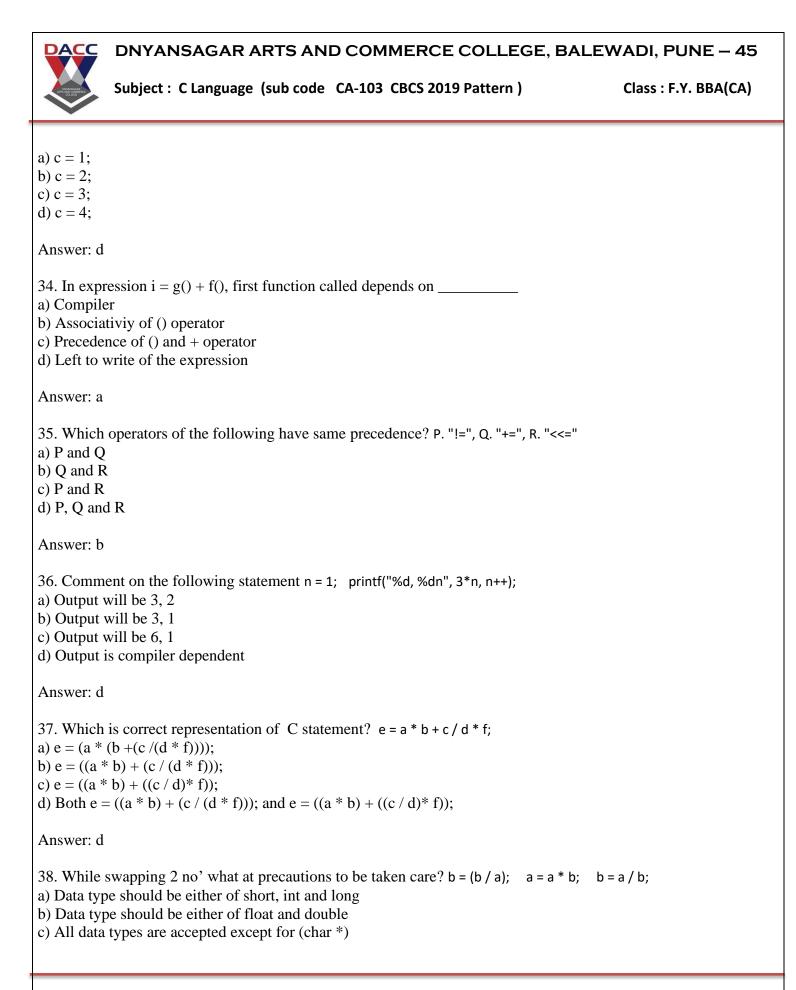
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d) all of the mentioned
Answer: d
 12. What is the size of an int data type? a) 4 Bytes b) 8 Bytes c) Depends on the system/compiler d) Cannot be determined
Answer: c
 13. enum types are processed by a) Compiler b) Preprocessor c) Linker d) Assembler
Answer: a
14. Which of the following statement is false?a) Constant variables need not be defined as they are declared and can be defined laterb) Global constant variables are initialized to zeroc) const keyword is used to define constant valuesd) You cannot reassign a value to a constant variable
Answer: a
 15. Which of the following declaration is not supported by C? a) String str; b) char *str; c) float str = 3e2; d) Both String str; & float str = 3e2;
Answer: a
 16. Which of the following declaration is illegal? a) char *str = "Best C programming classes by Sanfoundry"; b) char str[] = "Best C programming classes by Sanfoundry"; c) char str[20] = "Best C programming classes by Sanfoundry"; d) char[] str = "Best C programming classes by Sanfoundry";
Answer: d



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d) a % = 10;	
Answer: c	
23. Which of the following data type will throw an error on modulus operation(%)?a) charb) shortc) intd) float	
Answer: d	
 24. Which among the following are the fundamental arithmetic operators, i.e, performing the be done using that operator only? a) +, - b) +, -, % c) +, -, *, / d) +, -, *, /, % 	e desired operation can
Answer: a	
 25. Are logical operator sequence points? a) True b) False c) Depends on the compiler d) Depends on the standard 	
Answer: a	
26. Do logical operators in the C language are evaluated with the short circuit?a) Trueb) Falsec) Depends on the compilerd) Depends on the standard	
Answer: a	
 27. What is the result of logical or relational expression in C? a) True or False b) 0 or 1 c) 0 if an expression is false and any positive number if an expression is true d) None of the mentioned 	
Answer: b	
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 28. Relational operators cannot be used on a) structure b) long c) strings d) float 	
Answer: a 29. Which among the following is NOT a logical or relational operator? a) != b) == c) d) =	
 Answer: d 30. What is the type of the following assignment expression if x is of type float and y is of ty y = x + y; a) int b) float c) there is no type for an assignment expression d) double Answer: a 	ype int?
<pre>Allswel. a 31. What will be the value of the following assignment expression? (x = foo())!= 1 considering foo() returns 2 a) 2 b) True c) 1 d) 0</pre>	
Answer: a 32. Operation " $a = a * b + a$ " can also be written as a) $a *= b + 1$; b) $(c = a * b)!=(a = c + a)$; c) $a = (b + 1)* a$; d) All of the mentioned Answer: d	
33. What will be the final value of c in the following C statement? (Initial value: $c = 2$) c <<=	- 1;





Explanation: None.



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43. When do you need to use type-conversions?

- a) The value to be stored is beyond the max limit
- b) The value to be stored is in a form not supported by that data type
- c) To reduce the memory in use, relevant to the value
- d) All of the mentioned

View Answer

Answer: d

44. What is the scope of an external variable?

- a) Whole source file in which it is defined
- b) From the point of declaration to the end of the file in which it is defined
- c) Any source file in a program
- d) From the point of declaration to the end of the file being compiled

View Answer

Answer: d Explanation: None.

- 45. What is the scope of a function?
- a) Whole source file in which it is defined
- b) From the point of declaration to the end of the file in which it is defined
- c) Any source file in a program
- d) From the point of declaration to the end of the file being compiled

View Answer

Answer: d

46 In the standard library of C programming language, which of the following header file is designed for basic mathematical operations?

- a) <u>math.h</u>
- b) <u>conio.h</u>
- c) <u>dos.h</u>
- d) <u>stdio.h</u>

Answer: a

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- a) Constant expressions are evaluated at compile
- b) String constants can be concatenated at compile time

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c) Size of array should be known at compile time	
d) All of these	
Dption: d	
8. Which of the following statements should be used to obtain a remainder after di	viding 3.14 by 2.1 ?
a) $rem = 3.14 \% 2.1;$	
b) rem = modf($(3.14, 2.1)$;	
 c) rem = fmod(3.14, 2.1); d) Remainder cannot be obtain in floating point division 	
d) Remainder cannot be obtain in floating point division. Answer: Option c	
Answer: Option e	
9.Which of the following special symbol allowed in a variable name?	
a) * (asterisk)	
b) (pipeline)	
c) - (hyphen)	
d) _(underscore)	
Answer: Option d	
50.By default a real number is treated as a	
a) A.floatb) B.double	
b) B.double c) C.long double	
d) D. far double	
Answer: Option b	
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UNIT 2 : Managing I/O Operations
 Which among the following is the odd one out? a) printf b) fprintf c) putchar d) scanf Answer: d
 2. For a typical program, the input is taken using
 3. What does the following command line signify? prog1 prog2 a) It runs prog1 first, prog2 second b) It runs prog2 first, prog1 second c) It runs both the programs, pipes output of prog1 to input of prog2 d) It runs both the programs, pipes output of prog2 to input of prog1 Answer: c.
 4. What is the default return-type of getchar()? a) char b) int c) char * d) reading character doesn't require a return-type Answer: b
5. What is the value of EOF? a) -1 b) 0 c) 1 d) 10 Answer: a
 6. What is the use of getchar()? a) The next input character each time it is called b) EOF when it encounters end of file c) The next input character each time it is called EOF when it encounters end of file d) None of the mentioned



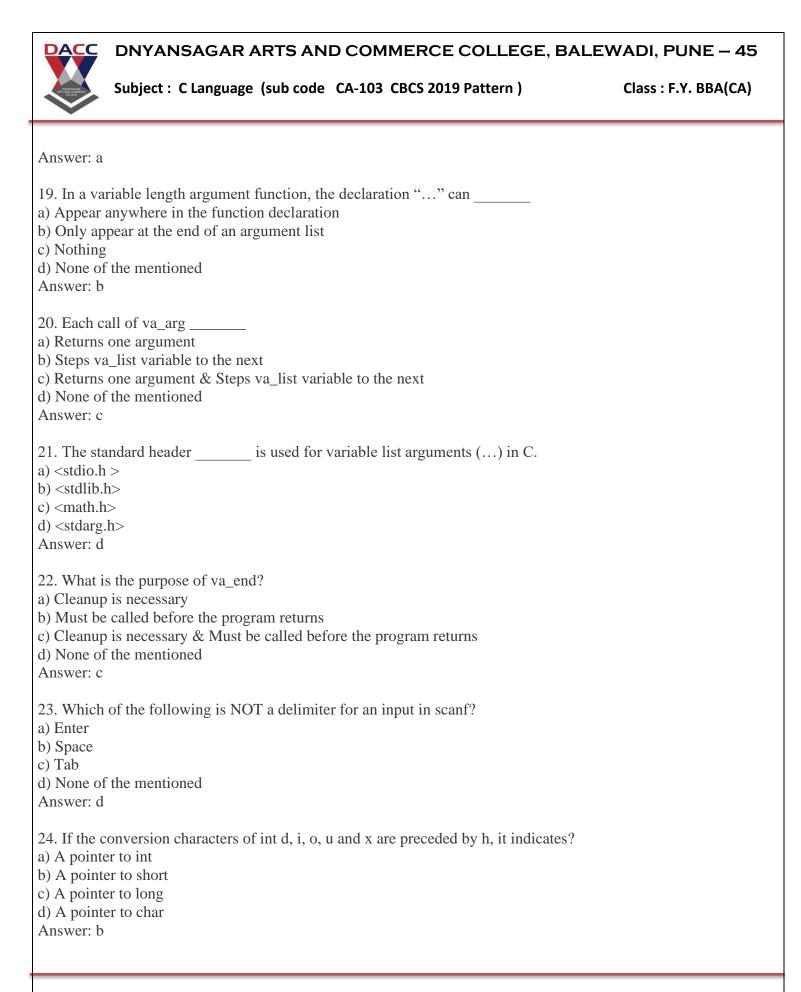
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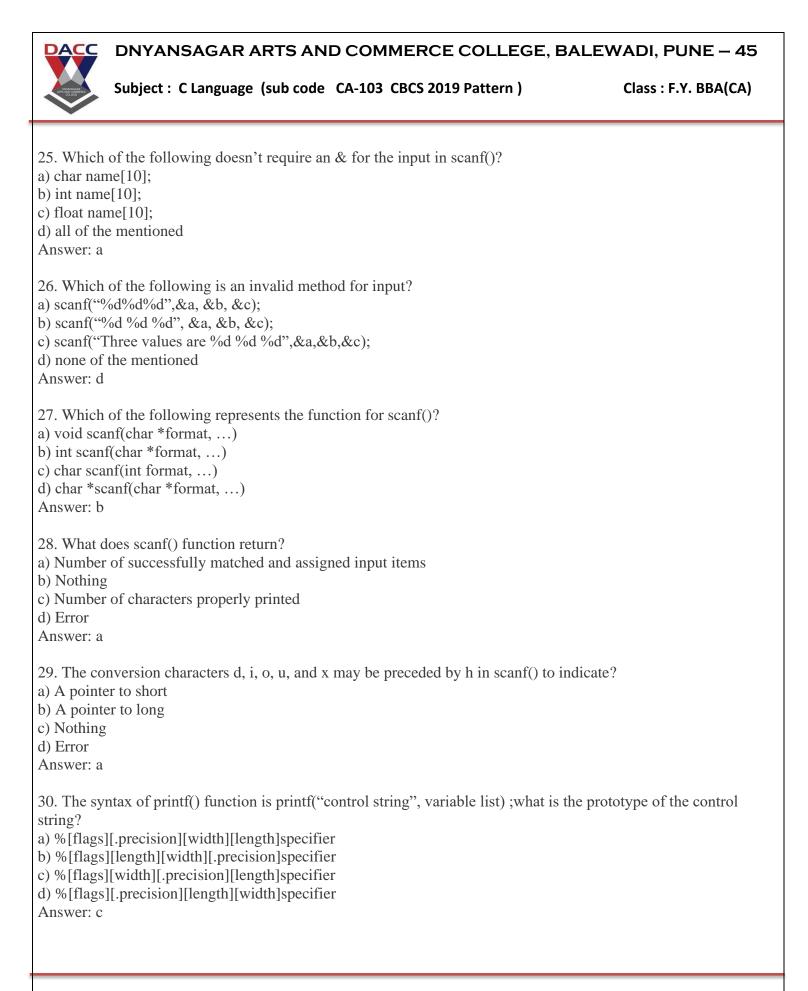
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7. Which of the following statement is true? a) The symbolic constant EOF is defined in <stdio.h> b) The value is -1 c) The symbolic constant EOF is defined in <stdio.h> & value is -1 d) Only value is -1 Answer: c 8. What is the return value of putchar()? a) The character written b) EOF if an error occurs c) Nothing d) Both character written & EOF if an error occurs Answer: d 9. Escape sequences are prefixed with _____ a) % b) / c) " d) None of the mentioned Answer: d 10. What is the purpose of sprintf? a) It prints the data into stdout b) It writes the formatted data into a string c) It writes the formatted data into a file d) None of the mentioned Answer: b. 11. The syntax to print a % using printf statement can be done by _____ a) % b) \% c) '%' d) %% Answer: d 12. What are the Properties of the first argument of a printf() functions? a) It is defined by a user b) It keeps the record of the types of arguments that will follow c) There may no be first argument d) None of the mentioned Answer: b



13. What is the difference between %e and %g? a) %e output formatting depends on the argument and %g always formats in the format [-]m.dddddd or [m.ddddE[+]-]xx where no.of ds are optional b) %e always formats in the format [-]m.dddddd or [-]m.dddddE[+|-]xx where no.of ds are optional and output formatting depends on the argument c) No differences d) Depends on the standard Answer: b 14. Which of the following function with ellipsis are illegal? a) void func(...); b) void func(int, ...); c) void func(int, int, ...); d) none of the mentioned Answer: a. 15. Which of the following data-types are promoted when used as a parameter for an ellipsis? a) char b) short c) int d) none of the mentioned Answer: a 16. Which header file includes a function for variable number of arguments? a) stdlib.h b) stdarg.h c) ctype.h d) both stdlib.h and stdarg.h Answer: a 17. Which of the following macro extracts an argument from the variable argument list (ie ellipsis) and advance the pointer to the next argument? a) va_list b) va_arg c) va_end d) va start Answer: b 18. The type va_list in an argument list is used ______ a) To declare a variable that will refer to each argument in turn; b) For cleanup c) To create a list d) There is no such type





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 31. The parameter control string in the printf () is a C String that contains text to be a) taken from a standard output device b) written on to the standard output device c) received from the standard output device d) nothing can be said Answer: b 	
 32. Output justification such as decimal point, numerical sign, trailing zeros or octal are specified. a) specifier b) flags c) precision d) decimal Answer: b 	
 33. What symbol is used to Left-justify within the data given field width? a) -(minus sign) b) +(plus sign) c) # d) 0 Answer: a 	
 34. What specifies the minimum number of characters to print after being padded with zeros or blank spaces? a) flags b) length c) width d) precision Answer: c 	
 35. The maximum number of characters to be printed is specified by a) precision b) width c) length d) flags Answer: a 	
 36is used to define the type and the interpretation of the value of the corresponding argument. a) precision b) specifiers c) flags d) decimal Answer: b 	
37. A conversion specification %7.4f means	



b) print a floating point value of maximum 4 digits where 7 digits are allotted for the digits after the decimal point c) print a floating point value of maximum 7 digits

d) print a floating point value of minimum 7 digits where 4 digits are allotted for the digits after the decimal point Answer: a

38. Choose the correct description for control string %-+7.2f.

a) – means display the sign, + means left justify, 7 specifies the width and 2 specifies the precision

b) – means left justify, + means display the sign, 7 specifies the width and 2 specifies the precision

c) – means display the sign, + means left justify, 7 specifies the precision and 2 specifies the width d) – means left justify, + means display the sign, 7 specifies the precision and 2 specifies the width Answer: b

39. What error is generated on placing an address operator with a variable in the printf statement?

a) compile error

b) run-time error

c) logical error

d) no error

Answer: b

40. If by mistake you specify more number of arguments, the excess arguments will ______

a) be ignored

- b) produce compile error
- c) produce run-time error
- d) produce logical error

Answer: a

41. What happens when zero flag is used with left justification?

a) data is padded with zeros

- b) zero flag is ignored
- c) data is padded with blank spaces
- d) will give error

Answer: b

42. For floating point numbers, the precision flag specifies the number of decimal places to be printed. When no precision modifier is specified, printf() prints _____

- a) six decimal positions
- b) five decimal positions

c) four decimal positions

d) three decimal positions

Answer: a

43. What will the given code result in printf("\n you are\"awesome \" ");?

a) compile error

b) run-time error

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c) you are "awesome" d) you are awesome Answer: c	
 44. What will be the output for the given code printf("\n The number is %07d",1212); a) The number is 0001212 b) The number is 1212 c) The number is 1212 d) The number is 1212000 Answer: a 	
 45. The syntax of the scanf() is scanf("control string ", arg1,arg2,arg3,,argn); the prototype a) [=%[width][modifiers]type=] b) [=%[modifiers][width]type=] c) [=%[width] [modifiers]] d) [width][modifiers] Answer: a 	e of control string is
 46. What is the use of symbol * in the control string as shown [=%[*][width] [modifiers] type a) * is optional and used when the data should be read from the stream but ignored b) * is not optional, used to read data from the stream but it is not ignored c) * is not optional, it is used to read data stream but ignored d) * is optional and used to read data from stream but it is not ignored Answer: a 	e=]?
 47. What action is carried out by scanf if a user enters any blank spaces, tabs, and newlines? a) consider as input b) ignores it c) produces error d) nothing can be said Answer: b 	
 48. What error will generate if the read and write parameters are not separated by commas? a) run-time error b) compile error c) logical error d) no error Answer: b 	
 49 is an optional argument that gives the maximum number of characters to be read. a) modifiers b) width c) precision 	
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d) length Answer: b
 50. Explain the format string "%5d%s %c" a) five characters as a decimal integer, then reads the remaining as a string and then scans the first non-whitespace character b) compile error c) run-time error d) read first five characters as a decimal and ignore the rest Answer: a
 51. Select the correct value of i from given options i=scanf("%d %d", &a, &b); a) 1 b) 2 c) 3 d) No value assigned Answer: b
 52. Select the correct value of i from given options i=scanf("%d %d", &a, &b); a) 1 b) 2 c) 3 d) No value assigned Answer: b
 53. If the user enters 1 3.2 s, what value will be returned by the scanf()?scanf("%d %f %c", &s1, &s2, &s3); a) 1 b) 2 c) 3 d) No return value Answer: c
 54. If the user enters 1 s 3.2, what value will be returned by the scanf()?scanf("%d %f %c", &a, &b, &c); a) 1 b) 2 c) 3 d) no return value Answer: a
55. What error will be generated on using incorrect specifier for the datatype being read?a) compile errorb) run-time errorc) logical error

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d) no error Answer: b 56. What is the prototype of scanf function? a) scanf("controlstring",arg1,arg2,arg3,....,argn); b) scanf("control string", variable list); c) scanf(" varible list,", control string); d) scanf("arg1,arg2,arg3,...,argn", control string); Answer: a 57. What is the meaning of the following C statement? scanf("%[^\n]s", ch); a) read all character except new line b) read all characters c) read only new line character d) syntax error Answer: a 58. What is the qualifying input for the type specifier G? a) floating point numbers b) floating point numbers in exponential format c) floating point numbers in the shorter of exponential format d) not a type specifier Answer: c 59. scanf() is a predefined function in _____header file. a) stdlib. h b) ctype. h c) stdio. h d) stdarg. h Answer: c 60. What does the C statement given below says? scanf("%7s",ch); a) read string with minimum 7 characters. b) read string with maximum 7 characters c) read string exactly to 7 characters d) read string with any number of characters Answer: b