

University of Mumbai
Examination 2020 under cluster APSIT

Program: **H&AS** Engineering

Curriculum Scheme: **Rev2016**

Examination: **First Year Semester II**

Course Code: **FEC205** and Course Name: **SPA**

Time: 1 hour

Max. Marks: 50

For the students:- All the Questions are compulsory and carry equal marks .

Q1.	Flowchart and algorithms are used for
Option A:	Better Programming
Option B:	Easy testing and debugging
Option C:	Efficient coding
Option D:	All
Q2.	In flowchart, diamond shaped symbol is used to represent
Option A:	Decision box
Option B:	Statement box
Option C:	Error
Option D:	Start and stop
Q3.	Part of algorithm which is repeated for fixed number of times is called:
Option A:	Iteration
Option B:	Selection
Option C:	Sequence
Option D:	Reverse action
Q4.	Which of the following operator takes only integer operand?
Option A:	+
Option B:	*
Option C:	/
Option D:	%
Q5.	If both numerator and denominator of a division operation in C language are integers, then we get?
Option A:	Expected algebraic real value
Option B:	integer value
Option C:	Compiler error.
Option D:	None of the above
Q6.	In C language, which Operator group has more priority between (*, / and %) and (+, -) groups?
Option A:	Both groups share equal priority.
Option B:	(+, -) > (*, / and %)
Option C:	(+, -) < (*, / and %)
Option D:	None of the above.
Q7.	Loops in C Language are implemented using?
Option A:	While Block

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Option B:	For Block
Option C:	Do While Block
Option D:	All the above
Q8.	What is the output of C Program.? <pre>int main() { int k, j; for(k=1, j=10; k <= 5; k++) { printf("%d ", (k+j)); } return 0; }</pre>
Option A:	compiler error
Option B:	10 10 10 10 10
Option C:	10 11 12 13 14 15
Option D:	None of the above
Q9.	What is the way to suddenly come out of or Quit any Loop in C Language?
Option A:	continue; statement
Option B:	break; statement
Option C:	leave; statement
Option D:	quit; statement
Q10.	Which of the following is an invalid if-else statement?
Option A:	if (if (a == 1))
Option B:	if (a)
Option C:	if ((char) a)
Option D:	if (func1 (a))
Q11.	Which loop is guaranteed to execute at least one time.
Option A:	Foe
Option B:	While
Option C:	Do-while
Option D:	None of the above
Q12.	What is the output of this program? <pre>#include <stdio.h> void main() { int a=10; if(a=5) printf("YES"); else printf("NO"); }</pre>

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Option A:	Yes
Option B:	No
Option C:	Error
Option D:	None of the above
Q13.	Which is not a storage class?
Option A:	Auto
Option B:	Struct
Option C:	Static
Option D:	typedef
Q14.	What is the output of the following program? #include< stdio.h> int main() { static int a = 3; printf(“%d”, a --); return 0; }
Option A:	0
Option B:	1
Option C:	2
Option D:	3
Q15.	Point out the illegal function declaration?
Option A:	int 2bhk(int*, int []);
Option B:	int 1bhk(int a);
Option C:	int 1bhk(int);
Option D:	All of the above
Q16.	Array can be considered as set of elements stored in consecutive memory locations but having _____.
Option A:	Same data type
Option B:	Different data type
Option C:	Same scope
Option D:	None of these
Q17.	An array Index starts with?
Option A:	-1
Option B:	0
Option C:	1
Option D:	2
Q18.	Which function will you choose to join two words?
Option A:	strcpy()
Option B:	strcat()
Option C:	strncon()
Option D:	memcon()

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Q19.	What will be the output of the following C code? <pre>#include <stdio.h> int main() { char *str = "hello, world\n"; printf("%d", strlen(str)); } </pre>
Option A:	Compilation error
Option B:	Run time error
Option C:	13
Option D:	11
Q20.	Which of the following are themselves a collection of different data types?
Option A:	string
Option B:	Structures
Option C:	char
Option D:	all of the mentioned
Q21.	What is the output of this C code? <pre>#include <stdio.h> void main() { struct student { int no; char name[20]; }; struct student s; s.no = 8; printf("%d", s.no); } </pre>
Option A:	Nothing
Option B:	Compile time error
Option C:	Junk
Option D:	8
Q22.	The size of a union is determined by the size of the _____
Option A:	First member in the union
Option B:	Last member in the union
Option C:	Biggest member in the union
Option D:	Sum of the sizes of all members
Q23.	A pointer is
Option A:	A keyword used to create variables
Option B:	A variable that stores address of an instruction
Option C:	A variable that stores address of other variable
Option D:	All of the above

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Q24.	The operator used to get value at address stored in a pointer variable is
Option A:	*
Option B:	&
Option C:	&&
Option D:	
Q25.	Which one of the following is correct syntax for opening a file?
Option A:	FILE *fopen(const *filename, const char *mode)
Option B:	FILE *fopen(const *filename)
Option C:	FILE *open(const *filename, const char *mode)
Option D:	FILE open(const*filename)