**X24EC0005 – Ruslan Zagidullin**

**Q1: What keyword is used to define a class in C++?**  
Ответ: **B) class**

**Q2: Which is the correct way to declare a class with a data member int age?**  
Ответ: **B) class Student { int age; };**

**Q3: In a class definition, which access specifier makes a member function or variable accessible only within the class?**  
Ответ: **A) private**

**Q4: Which of the following is not a valid function declaration inside a class?**  
Ответ: **D) function displayData();**

**Q5: What is the main purpose of a constructor in a class?**  
Ответ: **B) To initialize the data members of the class**

**Q6: Which of the following is true about constructors in C++?**  
Ответ: **D) Constructors do not have a return type.**

**Q7: What is the correct syntax for declaring a destructor in a class?**  
Ответ: **A) ~ClassName()**

**Q8: Which of the following statements is true about destructors?**  
Ответ: **B) A destructor is automatically called when an object is destroyed.**

**Q9: When an object is passed as a parameter to a function by value, what happens?**  
Ответ: **C) A copy of the object is created.**

**Q10: Which of the following is a correct way to pass an object to a function by reference?**  
Ответ: **B) void display(Object &obj)**

**Q11: What is the main advantage of passing an object by reference rather than by value?**  
Ответ: **B) It avoids creating a copy of the object, thus saving memory and time.**

**Q12: What happens when an object is returned from a function by value?**  
Ответ: **C) A new copy of the object is created and returned.**

**Q13: Which of the following is the correct way to return an object by reference?**  
Ответ: **B) Object& getObject()**

**Q14: If an object is returned by reference, which of the following is true?**  
Ответ: **B) The caller can modify the original object.**

**Q15: How is an array of objects from a class declared in C++?**  
Ответ: **A) ClassName obj[5];**

**Q16: Which of the following is true about initializing an array of class objects?**  
Ответ: **B) The constructor is called for each object in the array.**

**Q17: What is the correct way to declare a pointer to a class object in C++?**  
Ответ: \**B) ClassName pointer;*

**Q18: Which of the following is true when using a pointer to a class?**  
Ответ: **D) Pointers always point to a local object in the function.**

**Q19: What does the following line of code do? ClassName \*ptr = new ClassName();**  
Ответ: **A) Creates an object of type ClassName and stores its address in ptr.**

**Q20: Which operator is used to access a class's member functions when using a pointer to the object?**  
Ответ: **C) ->**