CS609- SYSTEM PROGRAMMING
(SOLVED MCQs)
FROM MIDTERM PAPERS
(1 to 92 TOPICS)

BC190202640@vu.edu.pk
Junaidfazal08@gmail.com

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JUNAID MALIK
(0304-1659294)

AL-JUNAID TECH INSTITUE

ALL MCQS ARE CONFIRMED IF ANY ISSUE THE CORRECT ACCORDINGLY

1. Which of the following tasks is not performed by the operating system?
   - ❖ Multitasking
   - ❖ Memory Management
   - ❖ File Management
   - ❖ Hardware repairing

1. Windows operating system allows us to run a huge process in a small memory space due to
   - ❖ Efficient primary memory management
   - ❖ Flexibility naming scheme for resources
   - ❖ High processing speed of processor
   - ❖ Virtual memory management
2. To provide an interface between the user and computer, a system is required which is called_____
   - ❖ Application software
   - ❖ Operating system
   - ❖ Customized software
   - ❖ Both application and customized software
3. A process-1 in windows operating system can access the momery space of process-2 if _____
   - ❖ Process-1 has no privilege to access memory space of other processes
   - ❖ Both processes have same ID
   - ❖ Process-1 loaded in the same space as process-2
   - ❖ Process-1 has privilege to access memory space of other processes.
4. Windows operating system provides a naming scheme for the resources which allows maximum character only
   - ❖ 255
   - ❖ 16
   - ❖ 55
   - ❖ 155
5. DOS was a _____ operating system.
   - ❖ GUI based
   - ❖ Command line

- Real time
- Multitasking

6. API stands for _____.
   - Application programming interface
   - Advance programming interface
   - Application programming integrity
   - Application programs interoperability.
7. Which operating system was offered by Microsoft that was used prior to windows
   - LINUX
   - UNIX
   - Solaris
   - Dos
8. Which of the following theme is not consider while introducing the new version of windows?
   - Enhanced API
   - Scalability
   - Performance
   - Increasing cost
9. Which version of windows is used for mobile devices
   - Windows ME
   - Windows CE
   - Windows vista
   - Windows server
10. In 2021, which of the following desktop operating systems was widely used in the world market?
    - Windows
    - Fedora
    - Salaris
    - Linux
11. Using _____ commands can be issued to the system through icons, buttons, shortcuts, sound etc.
    - Result- driven interface
    - Graphical user interface
    - Menu-driven interface only
    - Command only
12. One of the major causes of windows dominance in PC's market is its

- User-friendly GUI
- Best security features
- Feature of multitasking
- Best marketing strategy

13. Which statement is not correct about the windows operating system
- It can only be used in desktop system
- It supports both 32&64-bit architecture
- It supports voice commands
- It supports diverse hardware platforms

14. Which statement is incorrect about open source software?
- Paid license is required for it use
- Changes can be made by the general public
- Source code is freely available
- It is publicly available

15. Choose the major drawback of a closed source software
- Not affordable by the user
- Not customizable
- Not freely available to download
- Neither affordable, customizable, nor freely available for download

16. Example of a closed source software is _____
- Linux
- Windows OS
- Chrome browser
- Fedora

17. A uniform extension is software components is possible in ___ software.
- Vender specific
- Open source
- Community source
- Both open and closed

18. A socket on end-point is required only if
- Processor tries to write on internal hard disk
- Two processes communication over network
- A process needs a resource
- Process needs to access main memory

19. DWORD data type represents _____
- 32 bit unsigned integer

- 32 bit signed integer
- 16 bit unsigned integer
- 16 bit signed integer

20. A software or application can access any windows object _____
    - Directly
    - Directly and through API as well
    - Through API only
    - Not directly nor through API
21. Windows datatype LPTSTR
    - Long pointer to TSTR
    - Last pointer to TSTR
    - Last pointer to string
    - Long pointer to STR
22. Each windows API has a _____ number of parameters.
    - Fixed
    - Two
    - Variable
    - Four
23. Which statement is true about a multi- threading process?
    - A process has one or more threads
    - A process has only one thread
    - A thread has only one process
    - A thread can be created without process
24. Windows supports both the 32 and 64-bit source code by _____
    - Keeping separate API's for 32 and 64-bit code
    - Converting 32-bit into 64-bit code
    - Converting 64-bit into 32-bit code
    - Keeping separate compilers for each hardware
25. Windows operating system keeps _____ version of each API
    - Two
    - One
    - Complied
    - Interpreted
26. Which statement is incorrect about the 32-bit source code?
    - It runs on 64-bit hardware and can use its all features
    - It has its own windows API

- It does not support large disk space
- It runs on 64-bit hardware

27. Choose the appropriate advantage of C source code that uses C standard function
- Can access advance windows features
- Portable source code
- Runs on windows platform only
- Runs without making system calls to windows API's.

28. Choose the correct option for a source code that uses only windows API instead of C library functions.
- Source code can only access some features of windows
- Source code will not remain portable
- Source code cannot be complied
- Source code is portable

29. Which statement is true about fopen () function in C?
- It opens the existing file and not exists it creats a new file
- It opens the file only writing
- It opens the file only reading
- It opens the file only existing

30. fopen() function in C returns ____ if the file is not successfully opened
- Zero value
- Point to a file
- NULL value
- Neither NULL nor Zero

31. Open file objects using C library functions are identified by _____
- Pointer to a file structure
- Buffer
- Handle
- Both buffer and handle

32. A successfully read using fread() function in C is indicated by a ____ return value.
- Non-negative
- Zero
- Negative
- Boolean

33. What the following C statement represents; FILE *ptr;
- Pointer to a file structure
- Pointer to a character

- Pointer to a integer
- Pointer to a binary number

34. The return type of readfile() and writefile() is_____.
    - DROWD
    - BOOL
    - HANDLE
    - INT

35. Which statement is true about createfile() function
    - DWORD
    - BOOL
    - HANDLE
    - INT

36. Which statement is true about createfile() function
    - It open the existing file or creating a new file
    - It is not used for opening a file
    - It opens or create a file only for generic read
    - It opens or create a file only for generic write

37. LPWSTR stand for
    - Last pointer to wide string
    - Long pointer to wind string
    - Long pointer with string
    - Last pointer to string

38. The return type of malloc() function in C can be
    - Pointer to allocate space or NULL
    - Linked list
    - NULL only
    - An array

39. Which statement is correct about the convenience function?
    - It does not improve overall performance
    - It takes considerable time in execution
    - It performs a small task
    - A big task is performed a single API

40. UDF stands for
    - Universal driven format
    - Universal disk file
    - Universal driven file

- Universal disk format

41. Which option is not related to the NT file system
    - Compression
    - Encryption
    - File size limitation
    - Fault tolerance
42. Which feature of NTFS related to data security?
    - Large file name mechanism
    - Encryption
    - File allocation table
    - Compression
43. Keeping in view the support for huge fole size, which file system is more favorable?
    - NTFS
    - FAT16
    - FAT32
    - FAT8
44. NTFS stand for _____
    - New trend file system
    - New technology file system
    - New trend for system
    - New technology for system
45. Which special symbol can be used in windows filename?
    - Pipe
    - Forward slash
    - Backward slash
    - Underscore
46. The path name of a remote resource of server starts with ____ symbol.
    - Forward slash
    - Pipe
    - Double back slash
    - Black slash
47. In the windows file system, which symbol can be used as a path separator?
    - Pipe symbol
    - Back slash only
    - Both forward and backward
    - Forward slash only

48. The file extension usually contains _____ characters.
- 5 to 8
- 2 to 4
- 1 to 2
- 1 to 3

49. In windows file system, the extension and file name is separated by _____.
- |
- Dot(.)
- \
- /

50. The name of windows API used for opening and creating a new file is
- CreateFile()
- OpenFile()
- CreateopenFile()
- ReopenFile()

51. The return type of create file() function is.
- NULL
- A handle to an open file or INVALID_HANDLE_VALUE
- INVALID_HANDLE_VALUE
- Always handle to run open file object

52. In FILE_SHARE_READ mode, the file is shared for _____
- Concurrent read and write by multiple process
- Concurrent read and write by a single process
- Concurrent read by single process
- Concurrent read by multiple process

53. In the createfile() function, if the same name file already exists when the attributes, create, Always is used to
- Delete the existing file and create a new file
- Delete the existing file
- Over write an existing file
- Create an existing file

54. In the createFile() function, which statement is true about open_existing attribute if the file does not exist.
- It will create an existing file
- It will open some other file insteated of specified file
- It will fail to open the new file

- It will create a new file

55. The windows API _____ is used to read data from a file and store it in a buffer.
    - Create File()
    - Copy file()
    - Read file()
    - Write file()
56. If the file is not opened in concurrent mode, then ReadFile() API. ReadFile()API starts reading from the _____
    - Backup file
    - Start file
    - End of file
    - Current file
57. If we want to read 1000 bytes from a file with ReadFile() function but there are actually only 400 bytes in a file then _____
    - Read operation will fail
    - 400 bytes will be read
    - 1000 bytes will be read
    - Exception will be thrown
58. The windows API _____ is used to write data from a better and store it in a file
    - Create file
    - Copy file
    - Read file
    - Write file
59. The return type of writeFile() function is
    - BOOL
    - DWORD
    - LPDWORD
    - LPOVERLAPPED
60. A Unicode word consists of _____ bits
    - 24
    - 32
    - 16
    - 8
61. In Unicode formate, _____ number of character can be encoded.
    - 2^{10}
    - 2^{8}

- 2^{32}
- 2^{16}

62. The latest version of windows supports _____ standard.
- ASCII
- Unicode
- Scan codes
- Both ASCII and Unicode

63. TCHAR is a/ an _____ type variable.
- ASCII
- Generic
- Unicode
- Both ASCII and Unicode

64. _stprintf() is a/ an _____ c library function.
- Both ASCII and Unicode
- Generic
- Unicode
- ASCII

65. _tcscmp() is _____ function to compare the string
- An ASCII
- A Unicode
- Not a generic
- A generic

66. Which one is the correct definition of generic main() function?
- int _tmain(int argc, LPTSTR argv[])
- Int main
- Int main
- Int_main

67. All generic data types are include ____ header file.
- <tchar.h>
- <string.h>
- <windows.h>
- <char.h>

68. All generic functions are include in _____ header file
- <string.h>
- <windows.h>
- <char.h>

- <tchar.h>

69. TextOutW() is _____ bit API and it supports ____ standard.
- 32,Generic
- 32,ASCII
- 32,Unicode
- 16,Unicode

70. The standard C library function atio() supports _____
- Generic code
- Unicode
- 128-bit character code
- 8-bit character code

71. To switch between 8-bit character code and standard Unicode ____ functions and data type are required.
- Generic
- Non-generic
- Unicode
- 8-bit

72. Developing generic code needs extra effort but provides maximum ____
- Productivity
- User-friendly look
- Chance of errors
- Flexibility

73. What is the return value of GetlastError() function?
- It returns error code for last error
- It returns a formatted message for last error
- It takes input message from user and returns
- It returns error message for the last error

74. Which windows API is used to return a system error code?
- Geterror()
- Format message ()
- Get last error()
- Both geterror() and format Message()

75. Which header file includes all the Unicode macros for setting environment of a program?
- <everything.h>
- <environment.h>
- <tchar.h>

- <windows.h>

76. There are _____number of standard I/O devices in a windows system.
- Five
- Three
- Two
- Four

77. In a windows system, input ____ and _____ are three standard I/O devices.
- Error, correction
- Output, display
- Display, error
- Output, error

78. On execution, HANDLE_GetstHandle(DWORDnst Handle) will return a valid handle in case of
- Passing invalid parameters
- Success
- Exception
- Failure

79. STD_INPUT_HANDLE macro contains a variable, CONIN$,which is a/an _____.
- Input variable
- Default variable
- Environment variable
- Console variable

80. STD_OUTPUT_HANDLE contains _____ as an environment variable.
- CONIN$
- CONOUT$
- CONPRNT$
- CONDIS$

81. Option () function takes _____ parameters.
- 3
- 4
- 5
- Variable

82. Catfile() function takes _____ parameters.
- 3
- 5
- 4

- 2

83._____ empire is considered to be pioneers of encryption as they used basic encryption algorithms to encrypt secret conversation in a war.

- Persian
- Chines
- Roman
- Mughal

84.Roman empire use _____ algorithm to encrypt secret conversation.

- CTR
- Ceaser cipher
- Brute force
- Cryto graph

85.The text that we are going to encrypt is called ____ test so it is denoted by

- Personal, p
- Secret, w
- Proposed, p
- Plain, p

86.We represent that text by the symbol _____ in the encryption formula.

- E
- B
- A
- C

87.The formula of ceaser chopper is _____

- C = (E + W)mod26
- E = (P +n) mod27
- E = (D +n)mod27
- C = (P + n) mod26

88.We use MoveFileEx() to ____ the existing file

- Copy
- Rename
- Over write
- Delete

89.Which statement is true about hard copy function?

- Both the files must not be on same system volume.
- Both the files must be in encrypted form
- Creates a hard link for copy file

- Security attributes will apply on new file name

90. deleteFile() function takes _____ parameter.
- 4
- 1
- 2
- 3

91. Which of the following API is used for coping a file?
- CopyFile(LPCTSTRIPExistingFileName,LPCTSTR IPNewFileName, bool bfailExists);
- Char CopyFile(LPCTSTRIPExistingFileName,LPCTSTR IPNewFileName, bool bfailExists);
- Bool CopyFile(LPCTSTRIPExistingFileName,LPCTSTR IPNewFileName, bool bfailExists);
- String CopyFile(LPCTSTRIPExistingFileName,LPCTSTR IPNewFileName, bool bfailExists);

92. Correct syntax of MoveFile() function is _____
- Bool Move (LIPCTSTR lpNewName, LPCTSTR lpExistingFileName);
- Bool Move (LIPCTSTR lpNewName, LPCTSTR lpNewFileName);
- Bool MoveFile (LIPCSTR lpExistingFileName, LPCTSTR lpExistingNewName);
- Bool Move (bool lpNewName, LIPCTSTR LPCTSTR lpExistingFileName);

93. RemoveDirectory() function takes _____parameter(s)
- 1
- 4
- 3
- 2

94. Set currentDirectory() function takes _____ parameter(s)
- 2
- 1
- 4
- 3

95. Return type of GetcurrentDirectory() function is ()
- Int
- Bool
- String
- DWORD

96. createDirectory() function takes _____ parameter(s)

- 4
- 3
- 1
- 2

97. deleteFiles() function takes _____ parameter(s)

- 1
- 4
- 3
- 2

98. Return type of printMsg() function is _____

- DWORD
- CHAR
- BOOL
- WORD

99. Return type of printString() function is _____

- DWORD
- CHAR
- BOOL
- WORD

100. Correct syntax for create console input file is

- hln = createFile(_T("CONOUT$"), GENERIC_READ&NULL, OPEN_ALWAYS, FILE_ATTRIBURT_NORMALNULL);
- hln = createFile(_T("CONOUT$"), GENERIC_READ,1 GENERIC_WRITE,0&NULL, OPEN_ALWAYS, FILE_ATTRIBURT_NORMALNULL);
- hln = createFile(_T("CONIN$"), GENERIC_READ,1 GENERIC_WRITE,0&NULL, OPEN_ALWAYS, FILE_ATTRIBURT_NORMALNULL);
- prohln = createFile(_T("CONIN$"), GENERIC_READ,1 GENERIC_WRITE,0&NULL, OPEN_ALWAYS, FILE_ATTRIBURT_NORMALNULL);

101. consoleprompt() function takes _____ parameter(s)

- 2
- 3
- 5
- 4

102. Current syntax of Get currentDirectort() function is _____

- lencurDir =GetcurrentDirectory(DIRNAME_LEN,PwdBuffer);
- lencurDir =GetcurrentDirectory(DIRNAME_LEN);
- lencurDir =GetcurrentDirectory(DIRNAME_LEN);
- lencurDir =GetcurrentDirectory(PwdBuffer);

103. Get currentDirectory() function takes _____ parameter(s)
- 2
- 3
- 5
- 4

104. Return type of prontMsg() function is _____
- WORD
- BOOL
- CHAR
- DWORD

105. Get Directory() function takes _____ parameter(s)
- 2
- 3
- 5
- 4

106. In NTPS based system _____ is the maximum allowed size for a single file
- 2^8
- 2^{32}
- 2^{16}
- 2^{64}

107. FAT 32 based system _____ is the maximum allowed size for a single file
- 2^8
- 2^{32}
- 2^{16}
- 2^{64}

108. setFilepointer() function takes _____ parameter(s)
- 2
- 3
- 5
- 4

109. PLONG is a _____
- Pointer to a long variable

- String
- Variable
- Pointer to a string

110. Return type of setFilePointerEx() is _____
- String
- Bool
- Word
- DWORD

111. In setfilepointer() function, lpNewFilePointer parameter is placed is a/an
- Handle
- PLARGE_INTEGER
- DWORD
- LARGE_INTEGER

112. In setFilePoiter() function, distance to move parameter is placed in
- DWORD
- Handle
- PLARGE_INTEGER
- LARGE_INTEGER

113. There are _____ components of a LARGE integer
- 2
- 3
- 4
- 5

114. In the Overlapped structure, ULONG_PTR internal is a _____field.
- DWORD
- Integer
- Pointer
- Reserved

115. Overlap structure is a structure which is defined in the _____ header file
- Window.h
- Stdary.h
- Everything.h
- Stdio.h

116. In the overlapped structure the data type of ofsetand offsethigh is
- DWORD
- WORD

- INT
- BOOL

117. EOF is short form of _____
- Erase of file
- End of file
- End of folder
- Erase of folder

118. Return types of getfilesizeEx() is _____
- Bool
- Char
- Int
- DWORD

119. To reduce the filesize we use _____ windows API.
- Setfilesize()
- Changefilesize()
- SetendoffileEx()
- setfileEx()

120. File size cn be obtained using the ____ windows API.
- GetFileSizwEx()
- FileSizeExGet()
- GetFileSize()
- FileSize()

121. In the RECORD structure, datatype of numRecord is _____
- DWORD omponents of a LARG
- BOOL
- Double
- Int

122. In the RECORD structure, datatype of numNonemptyRecord is _____
- DWORD
- BOOL
- Double
- Int

123. What will be next code statement, if the following if statement id true? If (!setFilePointer Ex(nfilecurrentptr, NULL,FILE_BEGIN))
- RepotError(_T("RecordAccessError: writeFile header".)4,TRUE);
- RepotError(_T("RecordAccessError: writeFile header".)6,TRUE);

- RepotError(_T("RecordAccessError: setpointer".)4,TRUE);
- RepotError(_T("RecordAccessError: set End of File".)5,TRUE);

124. What will be next code statement, if the following if statement is true? If (!readFile(hFile& header, size of(Header),&nXfer,&ovzero))
- ReportError (_T("RecordAccessError:set End of File."),5,TRUE);
- ReportError (_T("RecordAccessError:set pointer."),4,TRUE);
- ReportError (_T("RecordAccessError:write File header."),4,TRUE);
- ReportError (_T("RecordAccessError:readFile header."),6,TRUE);

125. During searching files/folders, a data structure _____ is used to store the information about a found file or directory
- Directory -64
- Attribute
- Directory -32
- WIN32_FIND DATA

126. What will be next code statement, if the following if statement is true? If (!writeFile(hFile& header, size of(Header),&nXfer,&ovzero))
- ReportError (_T("RecordAccessError:set End of header."),6,TRUE);
- ReportError (_T("RecordAccessError:set pointer."),4,TRUE);
- ReportError (_T("RecordAccessError:write File header."),5,TRUE);
- ReportError (_T("RecordAccessError:readFile header."),4,TRUE);

127. The number of arguments required for Findclose()API is ____
- 3
- 1
- 2
- 0

128. The field flastAccessTime in a WIN32-FIND-DATA structure is used to represent a time when a file was _____ time accessed
- Closing
- Last
- First
- Second ;last

129. Using GetFileTime() API argument(s) is/are provided.
- Both creation and last access time
- Only last access time
- Creation, last access and last write time

- Only creation time

130. GetFileAttribute() API need ____ argument(s) to return the attributes of a file or directory

- 1
- 2
- 3
- 0

131. compareFileTime() API returns _____ if both the file time are equal

- 0
- 2
- 1
- -1

132. Which option is incorrect when the traverseDirectory() API is required to be use?

- It allow non-recursive traversal
- Recursive and non-recursive traversal option is irrelevant
- It allows recursive traversal
- It allows both non- recursive and recursive traversal

133. Which of the following is not an argument of the traverse Directory() API

- Option for simple listing or recursive processing
- Search pattern
- Parent path
- File creation time

134. Temporary files are assigned an extension ____ and they are used to store ____

- .temp,final result
- .tmpe,intermediate result
- .tmp,intermediate result
- .com,intermediate result

135. _____ is not a value argument for setFiletime() function

- pModifyTime
- NULL
- _T(ame)
- _P(accesstime)

136. SetFileTime() function takes a total of_____arguments.

- 3
- 5
- 4

- 2

137. GetsystemTimeAsFiletime() function receive _____ as an argument.
- File array
- File pointer
- File handle
- File objects

138. Which of the following is not a correct argument of options() function
- Argc
- Argv
- _T(amg)
- _T(amc)

139. The fseek() C library function uses _____ bit file position
- 8
- 16
- 32
- 64

140. For file processing windows provides a propriating function called_____
- Pseek64()
- Fseek()
- Fseek64()
- Pseek()

141. In MicrosoftUNIX library, all I/O function are named with _____ prefix.
- Semicolon
- Dot
- Underscore
- Colon

142. In lockFileEx() function, the OVERLAPPED data structure contains _____ data members.
- 3
- 5
- 2
- 4

143. File lock can be _____ or ____
- Read-only, write-only
- Read-only, write-only
- Read-locked, write only

- ❖ Read-only, read-write

144. The read operation does not conflict with the _____
- ❖ Existing shared lock
- ❖ Remove operation
- ❖ Write operation
- ❖ Existing exclusive lock

145. Before encountering a/an _____ lock, the read or write operation can complete its request partially
- ❖ Exclusive lock
- ❖ Shared lock
- ❖ Mutually exclusive lock
- ❖ Conflicting lock

146. If process-A has a shared lock on a file, and process-B tries to read without a shared lock then the read attempt will _____
- ❖ Return exception
- ❖ Succeed
- ❖ Return a shared lock
- ❖ Fail

147. UNIX system stores information in _____ directory similar to the registry entry
- ❖ /etc
- ❖ /reg
- ❖ /key
- ❖ /root

148. Programmers usually access windows build number through _____
- ❖ Web sockets
- ❖ Web API
- ❖ RESI API
- ❖ Windows API

149. Information about _____ is not present in the registry file.
- ❖ Power supply
- ❖ Chipset
- ❖ Memory
- ❖ Processor

150. _____information is present in the registry HKEY_CURRENT_CINFIG.
- ❖ Display resolution
- ❖ Process make

- Display size
- Memory amount

151. The registry HKEY_CURRENT_USER does not contain ____ information.
- System fonts
- Printers
- Environment variable
- Application preferences

152. The registry HKEY_LOCAL_MACHNE stores _____ information about the machine
- Physical
- Private
- Protected
- Logical

153. _____function enumerates subkey names of an open registry key.
- RegEnumKey()
- RegOpenKey()
- RegOpenKeyEx()
- RegENUMKeyEx()

154. The RegOpenKeyEx() function opens a named____
- Instance
- Sub key
- Key
- List

155. The function RegCreateKeyEx() ha ____ parameters.
- 8
- 7
- 9
- 6

156. Is Reg() function processes registry keys rather than ____ and ____
- Key-value pairs, files
- Key-value pairs, properties
- Directories, key-value pairs
- Directories, files

157. RegSetvalueEx() function is used to set the data of a ____ value.
- Final
- Fixed

- Named
- Static

158. The exception could occur within a _____ embedded in the try block.
- List
- Function
- Constructor
- Block

159. If filter_expression returns _____ then windows ignores the exception handler and searches for an exception handler in the enclosing block.
- EXCEPTION_SKIP_EXECUTION
- EXCEPTION_CONTINUE_SEARCH
- EXCEPTION_CONTINUE_EXECUTION
- EXCEPTION_SKIP_SEARCH

160. If the filter-expression was set to continue the execution but it is not possible to continue, then _____ exception code will be returned.
- EXECUTION-NONCONTINUABLE-EXCEPTION
- EXECUTION-NONCONTINUABLE-EXECUTION
- EXECPTION-NONCONTINUABLE-EXCEPTION
- EXECPTION-NONCONTINUABLE-EXCUTION

161. _____ exception code is returned if the process attempts to read or write a virtual address for which it has no access rights
- EXCEPTION-INTEGERS-VOILATION
- EXCEPTION-INTEGERS-BREACH
- EXCEPTION-ACCESS-VOILATION
- EXCEPTION-INTEGERS-BREACH

162. SHE is not supported through_____
- Run time support
- Windows function
- Compiler supported language extensions
- Windows registry

163. The filter-expression in the _____ clause is evaluated immediately after the exception occurs.
- -try
- -catch
- -except
- -finaly

164. The value of the ____ determine actions that follow
- Filter-except
- Filter-expression
- Filter-try
- Filter-search

165. _____ function is used to clear clearfp().
- _clear()
- _clearfp()
- _clean()
- _cls()

166. Programs can raise their own exception using the____ function
- BuildException
- RaiseException
- Createexception
- GenException

167. RaiseException has _____ parameters.
- 4
- 2
- 5
- 3

168. The exception handler is actually a code portion associated with _____ block.
- -finally
- -try
- -except
- -catch

169. The new value of floating point mask is determined by its value _____ and its two arguments.
- Current-value
- C-value
- Current-mask
- Current-val

170. The _____ function terminates the process if the program indicates that the error is fatal.
- Report handle()
- Terminate handle()
- Terminate process()

- Report error()

171. SIGSEGV error can only be generated bt ____ but not by ____
   - Windows, Raise
   - Linux, macos
   - Windows, linux
   - Raise windows

172. A single try block must have a single ____ or _____ block
   - Terminate, Except
   - Finally, Except
   - Finally, continue
   - Terminate, finally

173. ____ function is used within the termination handle to check how the try block is terminated
   - Check termination()
   - Check handle()
   - Check termination
   - Abnormal termination

174. ReportException() function have _____ arguments.
   - 3
   - 4
   - 2
   - 5

175. Second arguments of ReportException()function is _____
   - Exception code
   - Exception handle
   - Exception address
   - Exception name

176. The process or thread can terminate itself using ____ or ___ functions.
   - Terminate process(), Exist thread()
   - Terminate process(), Terminate thread()
   - Exist process(), Exist thread()
   - Exist thread(), Terminate thread()

177. The termination handler cannot axecute the____ statement
   - Break
   - Report
   - Continue

- Retur

178. C ++ execution handling is implemented using____
- SCH
- ECH
- ESH
- SEH

179. A filter function ____ the type of n exception.
- Restrick
- Evaluates
- Exclude
- Identifies

180. The _____ exception are enabled with the help of controlfp() function
- Floating point
- String
- Mutex
- Integer

181. ecategory is a/an _____
- Reference variable
- Simple variable
- Class
- Pointer

182. Which of the following in the number of parameters takes by controlpf() function
- 3
- 4
- 1
- 2

183. Which of the following in the number of parameters takes by filter function
- 1
- 2
- 3
- 4

184. Which of the following instruction is used to suspend the execution of a program for 5 milliseconds?
- Sleep(500)
- Sleep(5000)
- Sleep(5)

- Sleep(0.5)

185. Which of the following functions is used to generate a sound beep for 0.7 seconds with the frequency if 750?

- Beep (750,800)
- Beep(700,750)
- Beep(750,700)
- Beep(750,0.7)

186. A program can be terminated by passing____ from keyboard

- Ctrl +p
- Ctrl +N
- Ctrl +C
- Ctrl +Z

187. The return type of WINAPI Handler() function if _____

- Void
- Static integer
- Static bool
- Static float

188. #include<io.h> is used for _____

- Input output operation
- Working in CLI
- Memory allocation
- Multitasking

189. Windows OS keeps____ version of each API.

- One
- Interpreted
- Two
- Complier

190. The options function have _____ arguments

- 5
- 4
- 7
- 6

191. If invalid file handle is passed as a parameter to the closeFile API, then it will return_____

- Empty string
- 1

- File handle
- **False value**

192. _tcscmp() is _____ function to compare the strings.
- A generic
- An ASCII
- Not a generic
- A Unicode

193. There are _____ number of standard input out devices.
- 3
- 5
- 4
- 2

194. Every lockfileEx() function that is successful must be followed by a call to _____
- DeletelockEx()
- RemovelockEx()
- UnlatchlockEx()
- UnclockfileEx()

195. Try and catch keywords _____ required for vectored exception handlers.
- Are not
- Are
- Must be
- Are accasionally

196. In the context of vectored exception handling the zero value of firsthandler parameters shows that the handler being used wil be the _____ one to execute.
- Third
- Last
- Second
- First

197. In the vectored exception handler, the value of firsthandler parameter specific the _____ in which the handler will execute.
- Order
- Speed
- Allocation of stack
- Accuracy

198. Windows checks for a vectored exception handler at the _____ place when a vectored is set up followed by unwinding the stack.

- Second
- Third
- First
- Fourth

199. In the context of vectored exception handling the non-zero value of firsthandler parameters shows that the handler being used wil be the _____ one to execute.

- Third
- Last
- Second
- First

200. Which of the following is a Static data structure?

- Circular array
- Array
- Tree
- Union

201. Identify the advantages provided by memory mapped files.

- Convenience, collision, octection and memory sharing
- Exception handling, speed and memory sharing
- Convenience, speed and usability
- Convenience, speed and memory sharing

202. Windows mainly uses _____ API.

- 4
- 2
- 3
- 1

203. In win32_____ of the virtual space is accessible to a process and the remaining space is utilize by the system for other tasks

- One quarter
- Half
- Two third
- Three quarter

204. The virtual space of process ____ be larger than the physical memory space.

- Should always
- Cannot

- Must
- May

205. Which of the following occurs as a result of excessive page fault in
- Decreased system performance
- Increased utilization of I/O ports
- Decreased utilization of I/O ports
- Increased system performance

206. When the required page is not in the memory then a _____ occurs.
- Page fault
- Dirty frame
- Page error
- Frame fault

207. The translation of a virtual address int physical address is managed by the _____
- Offset addressing
- Operating system
- Device driver
- Transport layers

208. Pages are swapped in and out when a_____ occurs.
- Page fault
- Frame fault
- Page error
- Dirty frame

209. Which of the following is a dynamic data structure.
- Circular array
- Tree
- Union
- Array

210. A process can have _____ heap(s).
- Only once
- Only two
- Many
- At the most two

211. When a fixed size data structure is allocated from a single heap, it reduces_____
- Fragmentation
- Errors
- Memory density

- Throughput

212. The heapReAlloc() API has _____ parameter(s).
- 4
- 1
- 3
- 2

213. The heapAlloc() API has _____ parameter(s).
- 3
- 4
- 2
- 1

214. When a heap (logical structure) is created the memory is _____ allocated at the program.
- Partially
- Completely
- Not directly
- Directly

215. _____ are the APIs for heap memory allocation.
- Heapcreate ()and HeapRealloc()
- Allocheap () and HeapRealloc()
- HeapAlloc() and HeapRealloc()
- HeapAlloc() and HeapRealloc()

216. For a non growable heap, the value of dwbytes in heap memory alloction is _____
- 0*7FEE8
- 0*7FDD8
- 0*AAAA8
- 0*7FFF8

217. _____ is the first step to allocate heap in a program.
- HeapDestroy()
- HeapFree()
- Release and handle
- Get heap handle

218. The function heapSize() returns the size of a block, or _____ in case failure.
- NULL
- 1

- -1
- 0

219. _____ is used to deallocate the entire heap.
- HeapDestroy()
- HeapFree()
- HeapTruncate()
- HeapDelete()

220. Sorting is performed in the _____
- RootHeap
- RecHeap
- ProcHeap
- NodeHeap

221. _____ stores the root address.
- RootHeap
- RecHeap
- ProcHeap
- NodHeap

222. The NodeHeap maintains a _____
- Data
- Data structure
- Record
- Root

223. There are _____ parameters taken by the HeapCreate() API.
- 3
- 4
- 2
- 1

224. Which of the following is the correct windows API for accessing heap?
- INT GetProcessHeap(VOID)
- VOID GetProcessHeap(HANDLE)
- HANDLE GetProcessHeap(VOID)
- INT*GetProcessHeap(VOID)

225. When a fixed size data structure is allocated from a single heap, it reduces _____
- Memory density
- Errors
- Throughput

- Fragmentation

226. The parameters “flOption” in the HeapCreate() API is a combination of _____ flafs.
- 1
- 2
- 4
- 3

227. While using CreateFileMapping(), _____ allow the mapping object to be secured.
- INVALID_VALUES
- PSECURITY_ATTRIBUTES
- LPSECURITY_ATTRIBUTES
- INVALID_HANDLE_VALUES

228. While using CreateFileMapping(),setting lpMapName to _____ disables the map sharing.
- -1
- NULL
- 0
- 1

229. _____ is the API for file mapping objects.
- Create_File_Mapping()
- CreateFileMapping()
- FileCreateMapping()
- MakeFileMapping()

230. Which of the following are the number of parameters taken by CreateFileMapping()?
- 7
- 6
- 5
- 4

231. The _____-- flag is set to be_____ in the CreateProcess() function, which will determine whether child process will inherit copies of parent open handles.
- blanheritFlag, TRUE
- blnheritHandles, FALSE
- blanheritFlag,FALSE
- bInheritHandles, TRUE

232. IPC stands for_____.
- ❖ Information and privacy communication
- ❖ Inter privacy communication
- ❖ Information process communication
- ❖ Inter Process Communication

233. Inherited handles are _____ copies that a parent and child might be accessing.
- ❖ Connected
- ❖ Similar
- ❖ related
- ❖ Distinct

234. Process IDs are always _____.
- ❖ Frequent
- ❖ Repeated
- ❖ Constant
- ❖ Unique

235. The process obtains environment and other information from_____ call.
- ❖ CreateThread()
- ❖ GetEnvironmentinfo()
- ❖ Getinfo()
- ❖ CreateProcess()

236. lpApplicationName handle's value_____ be NULL.
- ❖ May not
- ❖ May
- ❖ should
- ❖ Should not

237. In windows there are _____ ways to get command line parameters for a process.
- ❖ Five
- ❖ Four
- ❖ Two
- ❖ Three

238. Windows OS does not have structure that keeps track record of the _____ processes.
- ❖ Child
- ❖ Grand –child
- ❖ Parent

- Parent_Child

239. The most fundamental process management function in windows is CreateProcess() that has_____--- parameters.
   - 12
   - 6
   - 4
   - 10

240. The process can share memory and files but the process itself lie an individual _____ memory space .
   - Non_volatile
   - Physical
   - permanent
   - Virtual

241. Thread Local Storage (TLS) is an array of collection of pointers enabling a thread to _____ storage to create its unique data environment.
   - De-allocate
   - Clear
   - Re-allocate
   - Allocate

242. Each thread has its own_____.
   - TLS
   - Environment Block
   - Stack
   - TLS and Stack

243. The process of DLL detachment in explicit linking is invoke by_____ function call.
   - Free()
   - freeLib()
   - Flibra
   - FreeLibrary()

244. Information regarding DLLs is placed in the _____data structure.
   - dwBuilderNumber
   - dwPlatform
   - MAJORVERSION
   - DLLVERSION

245. LoadLibrary() and LoadLibraryEx() should never be called from_____ as it will create more DLL entry Points.

- ThreadLibrarycalls()
- DllMinFunc()
- DisableThreadLibraryCalls()
- DllMain()

246. LoadLibraryEx() can suppress the execution of entry point, in _____-- linking of DLL.

- Implicit
- Static
- Dynamic
- Explicit

247. "Application that require newer updated functionality may sometime link with older DLL version". This statement refers to _____ of DLL versioning

- Strength
- Advantages
- Caution
- Problem

248. If entry point of DLL is not specified, then it is an example of _____-- linking.\

- Explicit
- Dynamic
- Hard
- Implicit

249. In case of_____ linking the DLL attaches at the time of process start and detaches when process ends

- Explicit
- Dynamic
- Hard
- Implicit

250. Explicit linking requires the program to explicitly specify the DLL to be _____.

- Freed
- Loaded
- Loaded and freed
- Ans: Loaded or freed

251. In a pointer function declaration for DLL explicit linking, HMODULE is NULL in case of_____.

- Execution
- Waiting
- success
- Failure

252. Once the DLL is loaded, the programmer needs to obtain _____ into the DLL for an entry point.

- Dynamic address
- Physical address
- Bus address
- Procedure Address

253. We write and _____ function in DLL and invoke them explicitly

- Compile
- Encrypt
- decrypt
- Encapsulate

254. In DLLs the executable library files are linked at_____ time

- . Ans: Compile

255. Each DLL program will have its own copy of _____ variables.

- Ans: Globle

256. In_____ operating system DLLs are used to invoke all kernel services.

- Ans: Windows

257. Dynamic memory is allocated from the

- Cache
- Paging file
- Stack
- Static memory

258. Which of the following is recommended to use while dealing with memory mapped file to look for EXCEPTION_IN_PAGE_ERROR exception?

- ESH exception handling
- SHE exception handling
- HE exception handling
- HES exception handling

259. To create a file mapping object, we have to declare _____ maximum parameters>

- 4
- 2
- 6
- 8

260. It is not possible for a system to map a file greater than _____ Into virtual memory space, while using Win32 OS.

- 2GB
- 3MB
- 3GB
- 2MB

261. It is much_____- to sort large data available in memory rather than in files.

- Harder
- Costly
- Unyielding
- Easier

262. qsort() is a _____ function.

- Standard library
- EXE
- Windows DLL
- User defined

263. When we create a file mapped object for sorting 1000 numbers in a file recorder will be saved in a/an_____-.

- Heap
- Stack
- Queue
- Array

264. Which of the following are the number of parameters taken by MapViewFile()?

- 2
- 4
- 3
- 5

265. While using MapViewOfFile(), which of the following are the three commonly used flags?

- FILE_WRITE, FILE_READ, AND FILE_ALL_ACCESS
- FILE_MAP_WRITE, FILE_MAP_READ,AND FILE_MAP_ALL_ACCESS
- MAP_WRITE,MAP_READ, AND MAP_AL_ACCESS

- ❖ WRITE, READ, AND ALL_ACCESS

266. _____ and _____ specify the starting address of the file from where the mapping starts.
- ❖ High, low
- ❖ dwFileHigh,dwFileLow
- ❖ dwFileOffsetHigh, dwFileOffsetLow
- ❖ dbFileOffsetHigh, dbFileOffsetLow

267. unmapViewOfFile() takes _____argument(s)
- ❖ 2
- ❖ 0
- ❖ 4
- ❖ 3

268. _____ Is the API for file mapping objects.
- ❖ MakeFileMapping()
- ❖ CreateFileMapping()
- ❖ FilecreateMapping()
- ❖ Create_file_Mapping()

269. While using CreateFileMapping(),_____ refers to the paging file.
- ❖ LPSECURITY_ATTRIBUTES
- ❖ PSECURITY_ATTRIBUTES
- ❖ INVALID_HANDLE_VALUES
- ❖ INVALID_VALUES

270. While using CreatFileMapping(),_____ allows the mapping object to be secured.
- ❖ LPSECURITY_ATTRIBUTES
- ❖ PSECURITY_ATTRIBUTES
- ❖ INVALID_HANDLE_VALUES
- ❖ INVALID_VALUES

271. While using CreateFileMapping(), setting IpMapName to_____ disables the map sharing.
- ❖ 0
- ❖ 1
- ❖ -1
- ❖ NULL

272. DLL stand for
- ❖ Direct layout library

- Dynamic link library
- Dynamic layout library
- Direct link library

273. The approach to gather all the source code and library functions after encapsulation into a single executable file, is called as _____
- Process linking
- Static linking
- Dynamic linking
- Thread linking

274. Each DLL program will have its own copy of ____ variables.
- Global
- Local
- Dynamic
- Static

275. In _____ operating system DLLs are used to invoke all kernel services.
- Windows
- Unix
- Linux
- Solaris

276. In DDLs the executable library files are linked at ____ time.
- Link
- Run
- Compile
- Load

277. The entry point in DLL defined structure (DWORD) ____ values.
- 8
- 4
- 2
- 16

278. ReadFile() and writeFile() functions perform much _____ than memory mapped file processing
- Slower
- Faster
- Convenient
- Nimble

279. Which of the following controls the paging file?

- The pager
- Direct memory access
- Memory mapped I/o
- Virtual memory management system

280. While using memory mapped I/O there is/are _____ to manage buffers for repetitive operation on the file operations.

- Needed
- Not needed
- Useful
- Mandatory

281. In order to make a program more efficient, _____ heap(s) may be required.

- partial
- only one
- several
- Minimum number of

282. There are _____ parameters taken by the HeapCreate() API.

- 3
- 2
- 1
- 4

283. The parameter "flOptions" in the HeapCreate() API is a combination of _____ flags.

- 2
- 4
- 3
- 1

284. A process can have _____ heap(s).

- Only two
- At the most one
- only one
- Many

285. _____ API is used to create a new heap.

- createHeap()
- HeapCreate()
- BuildHeap()
- NewHeap()

286. If threads have separate memory space, then it will reduce_____

- ❖ Memory contention
- ❖ Access speed
- ❖ Direct memory access
- ❖ Memory density

287. _____ is an appropriate API to dispose-off a heap handle.

- ❖ shudderHandle()
- ❖ DestroyHandle()
- ❖ DeleteHeap()
- ❖ HeapDestroy()