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(To be filled in the OMR Sheet)

प्रश्नपुस्तिका क्रमांक Question Booklet No.

प्रश्नपुस्तिका सीरीज Question Booklet Series

O.M.R. Serial No.

BCA (Fourth Semester) Examination, July-2022

BCA-402(N)

Operating System

Time: 1:30 Hours

Maximum Marks-100

जब तक कहा न जाय, इस प्रश्नपुस्तिका को न खोलें

- **निर्देश**: 1. प
- परीक्षार्थी अपने अनुक्रमांक, विषय एवं प्रश्नपुस्तिका की सीरीज का विवरण यथास्थान सही
 सही भरें,
 अन्यथा मूल्यांकन में किसी भी प्रकार की विसंगित की दशा में उसकी जिम्मेदारी स्वयं परीक्षार्थी की होगी।
 - 2. इस प्रश्नपुस्तिका में 100 प्रश्न हैं, जिनमें से केवल 75 प्रश्नों के उत्तर परीक्षार्थियों द्वारा दिये जाने है। प्रत्येक प्रश्न के चार वैकल्पिक उत्तर प्रश्न के नीचे दिये गये हैं। इन चारों में से केवल एक ही उत्तर सही है। जिस उत्तर को आप सही या सबसे उचित समझते हैं, अपने उत्तर पत्रक (O.M.R. ANSWER SHEET) में उसके अक्षर वाले वृत्त को काले या नीले बाल प्वांइट पेन से पूरा भर दें। यदि किसी परीक्षार्थी द्वारा किसी प्रश्न का एक से अधिक उत्तर दिया जाता है, तो उसे गलत उत्तर माना जायेगा।

K-373

- 3. प्रत्येक प्रश्न के अंक समान हैं। आप के जितने उत्तर सही होंगे, उन्हीं के अनुसार अंक प्रदान किये जायेंगे।
- 4. सभी उत्तर केवल ओ०एम०आर० उत्तर पत्रक (O.M.R. ANSWER SHEET) पर ही दिये जाने हैं। उत्तर पत्रक में निर्धारित स्थान के अलावा अन्यत्र कहीं पर दिया गया उत्तर मान्य नहीं होगा।
- 5. ओ॰एम॰आर॰ उत्तर पत्रक (O.M.R. ANSWER SHEET) पर कुछ भी लिखने से पूर्व उसमें दिये गये सभी अनुदेशों को सावधानीपूर्वक पढ़ लिया जाय।
- 6. परीक्षा समाप्ति के उपरान्त परीक्षार्थी कक्ष निरीक्षक को अपनी ओ०एम०आर० शीट उपलब्ध कराने के बाद ही परीक्षा कक्ष से प्रस्थान करें।
- 7. निगेटिव मार्किंग नहीं है।
- महत्वपूर्ण : प्रश्नपुस्तिका खोलने पर प्रथमतः जॉच कर देख लें कि प्रश्नपुस्तिका के सभी पृष्ठ भलीमॉित छपे हुए हैं। यदि प्रश्नपुस्तिका में कोई कमी हो, तो कक्ष निरीक्षक को दिखाकर उसी सीरीज की दूसरी प्रश्नपुस्तिका प्राप्त कर लें।

1.	Operating system
	(A) Enables the programmer to draw a flow chart
	(B) Provides a layer, user friendly interface
	(C) Links a program with subroutine it references
	(D) All of these
2.	CPU scheduling is the basis of
	(A) Multi-programming operating systems
	(B) Larger memory sized systems
	(C) Multiprocessor systems
	(D) None of the mentioned
3.	To access the services of the operating system, the interface is provided by
	the
	(A) Library
	(B) System calls
	(C) Assembly instructions
	(D) API
4.	Network operating system runs on
	(A) Server
	(B) Every system in the network
	(C) Both server and every system in the network
	(D) None of the mentioned
5.	The operating system is responsible for ?
	(A) Bad-block recovery
	(B) Booting from disk
	(C) Disk initialization
	(D) All of the mentioned

6.	is the concept in which a process is copied into the main memory from the
	secondary memory according to the requirement.
	(A) Paging
	(B) Demand paging
	(C) Segmentation
7.	(D) Swapping To access the services of the operating system, the interface is provided by
	the
	(A) System calls
	(B) API
	(C) Library
	(D) Assembly instructions
8.	A deadlock avoidance algorithm dynamically examines the to ensure that
	a circular wait condition can never exist.
	(A) Operating system
	(B) Resources
	(C) System storage state
	(D) Resource allocation state
9.	When a process is in a "Blocked" state waiting for some I/O service. When the
	service is completed, it goes to the
	(A) Terminated state
	(B) Suspended state
	(C) Running state
	(D) Ready state
10.	Which is not the function of the Operating System?
	(A) Memory management
	(B) Disk management
	(C) Application management
	(D) Virus protection

11.	Among the following, which is an example of a spooled device?
	(A) A line printer that prints the output of a number of jobs
	(B) A terminal that inputs user data
	(C) A I/O device to display graphics
	(D) None
12.	is capable of overlapping I/O operation for one job with processor
	operations for another job.
	(A) Buffer
	(B) Spooling
	(C) Swapping
	(D) Switching
13.	A process which is copied from main memory to secondary memory on the basis of
	requirement is known as:
	(A) Demand Paging
	(B) Paging
	(C) Threads
	(D) Segmentation
14.	Is mutual exclusion required for shareable resources?
	(A) Yes
	(B) No
	(C) May be
	(D) None
15.	Which of the following are two types of atomic operations performed by
	semaphores?
	(A) Wait, signal
	(B) Wait, stop
	(C) Signal, stop
	(D) Signal, wait

16.	The operating system was developed by an American company Microsoft
	(A) MS Office
	(B) Windows
	(C) Linux
17.	(D) Unix When can the binding of instructions and data to memory addresses be done?
	(A) Load time
	(B) Compile time
	(C) Execution time
	(D) All of the above
18.	Which of the following is not an operating system?
	(A) Linux
	(B) DOS
	(C) Oracle
	(D) Windows
19.	It becomes possible to have the computer read data from a tape, write data to disk
	and to write out to a tape printer while it is doing its computing task:
	(A) Buffer
	(B) Spooling
	(C) Swapping
	(D) Switching
20.	The most optimal CPU scheduling algorithm is
	(A) Shortest job first
	(B) First Come First Serve
	(C) Round robin
	(D) None

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26.	In what way is an operating system look like a government?
	(A) It performs most useful functions by itself
	(B) It creates an environment within which other programs can do useful work
	(C) It does not often function correctly
	(D) It is always concerned primarily with the individual's needs
27.	The operating system is responsible for ?
	(A) Bad-block recovery
	(B) Booting from disk
	(C) Disk initialization
	(D) All of the mentioned
28.	Which of the following is not a resource that may be allocated by operating
	system?
	(A) CPU
	(B) File system
	(C) Memory
	(D) Storage device
29.	Sharing the processor, when two or more programs reside in memory at the same
	time, is referred as Sharing the processor, when two or more programs reside in
	memory at the same time, is referred as
	(A) Batch
	(B) Multi-programming
	(C) Multi-tasking
	(D) None
30.	User action such as keystroke or mouse click are referred to as:
	(A) Interrupt
	(B) Tasks
	(C) Processes
	(D) Event

31.	Booting means
	(A) Restarting computer
	(B) Installing program
	(C) Removing errors
	(D) Switch off
32.	First-in-First-Out (FIFO) scheduling is:
	(A) Non Preemptive Scheduling
	(B) Preemptive Scheduling
	(C) Fair Share Scheduling
	(D) Deadline Scheduling
33.	The duty of the scheduler is to schedule the process from the ready state to
	the running state.
	(A) Short-term
	(B) Long-term
	(C) Medium-term
	(D) None
34.	By default we can save the file in:
	(A) Desktop
	(B) Recycle bin
	(C) My document
	(D) My computer
35.	Which of the following is NOT a valid deadlock prevention scheme?
	(A) Release all resources before requesting a new resource
	(B) Number the resources uniquely and never request a lower numbered resource
	than the last one requested
	(C) Never request a resource after releasing any resource
	(D) Request and all required resources be allocated before execution

36.	The operating system is the most common type of Software.
	(A) Communication
	(B) Application
	(C) System
	(D) Word processing software
37.	Which is not application software?
	(A) Windows NT
	(B) Page Maker
	(C) WinWord XP
	(D) Photoshop
38.	Page-Table Length Register (PTLR) indicates size of:
	(A) Page Table
	(B) Paging File
	(C) Main Memory
	(D) Virtual Memory
39.	The SJF algorithm executes first the job:
	(A) That last entered the queue
	(B) That first entered the queue
	(C) That has been in the queue the longest
	(D) With the least processor needs
40.	The is the module that gives a process control over the CPU after it has been
	selected by the short-term scheduler.
	(A) Dispatcher
	(B) Scheduler
	(C) Controller
	(D) Interrupt

41.	Dived logical memory into blocks with the same size as frames are called:
	(A) Pages
	(B) Frames
	(C) Page Table
	(D) Segmentation
42.	The number of processes completed per unit time is known as
	(A) Output
	(B) Throughput
	(C) Efficiency
	(D) Capacity
43.	The OS manages the communications between the processor. They communicate
	with each other through various communication lines. This environment known as
	(A) Network
	(B) Distributed
	(C) Time-sharing
	(D) Real-Time
44.	For system protection, a process should access
	(A) All the resources
	(B) Only those resources for which it has authorization
	(C) Few resources but authorization is not required
	(D) All of the mentioned
45.	The time taken to move the disk arm to the desired cylinder is called the
	(A) Positioning time
	(B) Random access time
	(C) Seek time
	(D) Rotational latency

46.	In Operating Systems, which of the following is/are CPU scheduling algorithms?
	(A) Round Robin
	(B) Shortest Job First
	(C) Priority
	(D) All of the mentioned
47.	The Operating system must guarantee response to events within fixed periods of
	time to ensure correct performance:
	(A) Network
	(B) Distributed
	(C) Time-sharing
	(D) Real-Time
48.	File type can be represented by
	(A) File name
	(B) File extension
	(C) File identifier
	(D) None of the mentioned
49.	Process are classified into different groups in
	(A) Shortest job scheduling algorithm
	(B) Round robin scheduling algorithm
	(C) Priority scheduling algorithm
	(D) Multilevel queue scheduling algorithm
50.	In priority scheduling algorithm
	(A) CPU is allocated to the process with highest priority
	(B) CPU is allocated to the process with lowest priority
	(C) Equal priority processes cannot be scheduled
	(D) None of the mentioned

51.	Operating system is a collection of
	(A) Software routines
	(B) Input-output devices
	(C) Hardware components
	(D) All of these
52.	The interval from the time of submission of a process to the time of completion is
	termed as
	(A) Waiting time
	(B) Turnaround time
	(C) Response time
	(D) Throughput
53.	Which of the following is not a part of the operating system?
	(A) Input/output control program
	(B) Job control program
	(C) Supervisor
	(D) Performance
54.	refers to putting data of various I/O jobs in a buffer.
	(A) Buffer
	(B) spooling
	(C) Swapping
	(D) Switching
55.	In contiguous allocation
	(A) Each file must occupy a set of contiguous blocks on the disk
	(B) Each file is a linked list of disk blocks
	(C) All the pointers to scattered blocks are places together in one location
	(D) None of the mentioned

56.	By using the specific system call, we can
	(A) Open the file
	(B) Read the file
	(C) Write into the file
	(D) All of the mentioned
57.	The heads of the magnetic disk are attached to a that moves all the heads
	as a unit.
	(A) Spindle
	(B) Disk arm
	(C) Track
	(D) None of the mentioned
58.	increases CPU utilization by organization jobs so that the CPU always has
	one to execute.
	(A) Network
	(B) Distributed
	(C) Time-sharing
	(D) Multi-programming
59.	A program that is loaded into memory and is executing is commonly referred to as
	a
	(A) File
	(B) Process
	(C) Data
	(D) Directory

60.	Multitasking Operating Systems are also known as systems.
	(A) Network
	(B) Distributed
	(C) Time-sharing
	(D) Multi-programming
61.	Disadvantage of batch operating system is:
	(A) Much of the work
	(B) Increased performance
	(C) Difficult to debug
	(D) None
62.	Program becomes process when file loaded into memory.
	(A) Object
	(B) Executable
	(C) Source
	(D) Class
63.	The only work of scheduler is selection of
	(A) Processes
	(B) Memory
	(C) Data
	(D) Job
64.	Short-Term Scheduler is also known as scheduler.
	(A) Job
	(B) Process
	(C) CPU
	(D) Memory

65.	are special system software which handle process scheduling in various
	ways.
	(A) Dispatcher
	(B) Scheduler
	(C) Controller
	(D) Interrupt
66.	The duty of the scheduler is to bring the process from the JOB pool to
	the Ready state for its execution.
	(A) Short-term
	(B) Long-term
	(C) Medium-term
	(D) None
67.	Each file has its own index block which stores the addresses of disk space occupied
	by the file:
	(A) Index allocation
	(B) Linked allocation
	(C) Sequential allocation
	(D) Contiguous allocation
68.	inefficient in case of direct access file.
	(A) Index allocation
	(B) Linked allocation
	(C) Sequential allocation
	(D) Contiguous allocation
69.	External fragmentation is a major issue with this type of allocation technique.
	(A) Index allocation
	(B) Linked allocation
	(C) Sequential allocation
	(D) Contiguous allocation

70.		file organization provides, accessing the records directly.
	(A)	Random access
	(B)	Sequential access
	(C)	Index access
	(D)	Index sequential access
71.	A _	is that in which the records are accessed in some sequence.
	` ′	Index access
	` ′	Pointer access
		Sequential access
7 0	1	Contiguous
72.		is a sequence of bits, bytes, lines or records.
	(A)	Directory
	(B)	File
	(C)	Drive
	(D)	Pendrive
73.	Mul	tiple instances of a resource type-Use the
	(A)	Resource allocation graph
	(B)	Deadlock detection
	(C)	Banker's algorithm
	(D)	None
74.	Ensi	are that a system will never enter an unsafe state, is known as
	(A)	Detection
	(B)	Avoidance
	(C)	Deadlock
	(D)	Resource graph
75.		process can affect or be affected by the execution of another process.
	(A)	Independent
	(B)	Free
	(C)	Running
	(D)	Cooperating

76.	is used for exchanging data between multiple threads in one or more
	processes or programs.
	(A) Synchronization
	(B) Inter process communication
	(C) Semaphore
	(D) Queue
77.	Atomic action is required in a critical section i. e. only one process can execute in
	its critical section at a time.
	(A) Two process
	(B) Thread
	(C) One process
	(D) Two thread
78.	A condition is a situation that may occur inside a critical section.
	(A) Mutual
	(B) Race
	(C) Edit
	(D) Entry
79.	As per, operating system should be convenient to use, easy to learn
	reliable, safe, and fast.
	(A) System goal
	(B) User goal
	(C) Data goal
	(D) Process goal
80.	A can run in two modes-user mode and kernel mode.
	(A) File
	(B) Memory
	(C) Process
	(D) Data

81.	are used to provide an interface between the operating system and the
	user programs.
	(A) System calls
	(B) Kernel
	(C) Process
82.	(D) Files External fragmentation reduced by the method known as
	(A) Memory management
	(B) Process editing
	(C) Compaction
	(D) File editing
83.	In, a process address space is broken into fixed sized blocks called
	pages.
	(A) Memory
	(B) Segmentation
	(C) Paging
	(D) File
84.	Memory management scheme for a specific system depends on many factors,
	especially on the of the system.
	(A) Software design
	(B) Hardware design
	(C) File design
	(D) Memory design
85.	A operating system must have well-defined, fixed time constraints,
	otherwise the system will fail.
	(A) Network OS
	(B) Real-time OS
	(C) Distributed system
	(D) DOS system

86.	The time taken by the system to respond to an input and display of required
	updated information is termed as the
	(A) Seek time
	(B) Response time
	(C) Edit time
87.	(D) None A system runs on a server and provides the server the capability to
	manage data, user's, groups, security, application, and other networking functions.
	(A) Network system
	(B) Central system
	(C) Distributed system
	(D) DOS system
88.	Loosely coupled systems are also know as
	(A) Network system
	(B) Central system
	(C) Distributed system
	(D) DOS system
89.	use multiple central processors to serve multiple real-time applications
	and multiple users.
	(A) Network system
	(B) Central system
	(C) Distributed System
	(D) DOS system
90.	Computer systems that were designed primarily as batch systems have been
	modified to time-sharing systems:
	(A) DOS system
	(B) Time-sharing system
	(C) Network system
	(D) None

91.	This type of operating system does not interact with the computer directly.
	(A) Batch OS
	(B) Multi-programming OS
	(C) Multi-tasking OS
	(D) None
92.	Keeps track of time and resources used by various jobs and users. It is known
	as
	(A) Memory Management
	(B) File Management
	(C) Job Accounting
	(D) Security
93.	Keeps track of information, location, uses, status etc. It is known as
	(A) Memory system
	(B) File system
	(C) Device system
	(D) None
94.	Operating system act as a of all hardware and software devices in our
	computer system.
	(A) Teacher
	(B) Controller
	(C) Manager
	(D) Editor
95.	A file system is normally organized into directories for easy and usage.
	(A) Edit
	(B) Navigation
	(C) Analysis
	(D) Discussion

96.	Secondary storage-extension of main memory that provides large storage
	capacity.
	(A) Volatile
	(B) Nonvolatile
	(C) RAM
	(D) None
97.	Keeps tracks of processor and status of process, is known as
	(A) Memory Management
	(B) Device Management
	(C) Process Management
	(D) None
98.	Using higher level languages allows the code to be written .
	(A) Slow
	(B) Faster
	(C) Moderate
	(D) Accurate
99.	An operating system is a program that acts as an interface between the user and the computer hardware and controls the of all kinds of programs.
	(A) Read
	(B) Write
	(C) Execution
	(D) End
100.	At first, operating systems were written in assembly, but now is the
	language commonly used.
	(A) Java
	(B) Python
	(C) C/C++
	(D) COBOL

Rough Work / रफ कार्य

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