

132/2015

Maximum : 100 marks

Time : 1 hour and 15 minutes

1. For Intel Core i3 processor, GMCH is integrated with :

(A) South Bridge (B) GPU
(C) North Bridge (D) FCH

2. In order to perform a critical task in timeliness, a multimedia system may use which of the following disk scheduling?

(A) SSTF (B) SATF
(C) Elevator (D) Real Time

3. An omega switching network with n CPU and n memories requires how many switches?

(A) $(n \log_2 n)/2$ (B) $n/2(n \log_2 n)$
(C) $\log_2 n$ (D) $\log_2 n/2$

4. The minimum pit length for a single layer DVD is :

(A) 500 (B) 400
(C) 600 (D) 250

5. A pipelining system with n segments takes 50 sub operations in a sequence. The time taken to complete a sub operation in each segment is 8 nsec. If the task is completed in 424 nsec, what is the value of n ?

(A) 2 (B) 8
(C) 4 (D) 16

6. In multiprocessor system, a processor generated signal that serves to prevent other processors from using the system bus as long as the signal is active can be called as :

(A) Semaphore (B) Pipe
(C) Hardware Lock (D) Critical Session

7. At the beginning of an instruction cycle, the content of the Instruction Register is 5 and that of Program Counter is 320. When the instruction is read, the address part of the instruction is the number 7. Then the effective address in relative address mode is :

(A) 328 (B) 327
(C) 325 (D) 342

17. In a demand paging system, M is the time to access memory, F is the average time to service a page fault. P is the probability of page fault. Then the effective access time is :

(A) $P * M + (1 - P) * F$ (B) $M + (1 - P) * F$
(C) $(1 - P) * M + P * F$ (D) $(M + F) * P$

18. Externally defined symbols are resolved by :

(A) Compiler (B) Linker
(C) Loader (D) Lexical Analyser

19. The initial value of a semaphore that ensures only one of the many processes enter the critical session is :

(A) 0 (B) 1
(C) -1 (D) 2

20. Debugging a kernel code is a difficult task, because of :

(A) kernel code cannot be executed easily under a debugger
(B) bugs in a kernel code cannot be traced easily, because it is a set of procedures related to a separate process and there will be a little evidence to track the errors
(C) errors may be hard to reproduce and may collapse the entire system
(D) all the above reasons

21. Which of the following HTML tag has an attribute called Frame?

(A) <INPUT> (B) <FORM>
(C) <FRAMESET> (D) <TABLE>

22. The HTML DOM Event that is triggered automatically when a user enters a web page is :

(A) OnLoad (B) OnFocus
(C) OnOpen (D) OnShow

23. CORBA programmers can develop distributed applications in C++/Java using :

(A) Orbix (B) OpalOrb
(C) GIOP (D) EJB

24. XML captures Hypertext information using :

(A) <A> (B) XLL
(C) XLS (D) DTD

25. In DHCP, the UDP port number for sending data to the server is :

(A) 60 (B) 62
(C) 65 (D) 67

26. Which of the following statement is *false*?
- (A) It is not possible to convert an HTML document into an XML document
(B) Both XML and HTML are subset of SGML
(C) A well formatted XML document need not require DTD
(D) CSS works better with XML than with HTML
27. In a style sheet, the style rule from another CSS file can be loaded using :
- (A) @include (B) @import
(C) @attach (D) @load
28. The easiest method for a Web Server program to store the client information in a web browser for future use is :
- (A) Applet (B) Cookie
(C) Template (D) Log file
29. A form of address spoofing resulting in denial of service attack :
- (A) Session Hijacking (B) Island Hopping
(C) Sniffing (D) War Dialing
30. Which of the following is a JavaScript debugging method?
- (A) window.alert (B) console.log
(C) document.write (D) document.getElementById
31. Which of the following statement is *false*?
- (A) Samba can play a number of server roles such as File Server, Print Server, Primary Domain Controller etc.
(B) Samba allows to share files with windows host
(C) SWAT requires no web server running
(D) SWAT interface cannot be directly accessed from web browser
32. Simplest way to pass data between two Linux programs running in a system is :
- (A) Socket (B) Pipe
(C) Semaphore (D) RPC
33. The Linux command that can be used to search for a pattern matching string in a file :
- (A) find (B) which
(C) grep (D) search

73 The statement that is least preferred in C programs in general is :

74. What will be the output of following C++ program?

```
#include<iostream.h>
void main ()
{
    char *cp="computer";
    cp+=2;
    (*cp)++;
    cout<<cp;
}
```


75. What will be the output of following C++ program?

```
#include<iostream.h>
void main ()
{
    int x=10, y=5, z;
    z= ++x+ (++y) ++;
    cout<<z;
}
```


84. Prime Minister Narendra Modi sworn in as the :

- | | |
|-------------------------------------|-------------------------------------|
| (A) 16 th Prime Minister | (B) 15 th Prime Minister |
| (C) 14 th Prime Minister | (D) 13 th Prime Minister |

85. The fourth Chief Minister of Kerala :

- | | |
|---------------|------------------------|
| (A) EMS | (B) Pattom Thanupillai |
| (C) R. Sankar | (D) A.K. Antony |

86. Who is known as 'Indian Bismarck'?

- | | |
|----------------------------|------------|
| (A) Kamaraj | (B) Nehru |
| (C) Sardar Vallabhai Patel | (D) Rajaji |

87. Kerala Varma Pazhassi Raja was short to death in :

- | | |
|----------------------|-----------------------|
| (A) 1805, June 11 | (B) 1805, July 7 |
| (C) 1805, October 30 | (D) 1805, November 30 |

88. Which of the following is a biography of the lady Mountbatten?

- | | |
|--|--|
| (A) Edwine Mountbatten | |
| (B) Edwine Mountbatten – A life of her own | |
| (C) Edwine Mountbatten – Her relationship with Nehru | |
| (D) Mountbatten | |

89. Durand Cup is associated with :

- | | |
|-----------------|---------------|
| (A) Volley ball | (B) Foot ball |
| (C) Cricket | (D) Hockey |

90. National Maritime day follows on :

- | | |
|---------------|-----------------|
| (A) April 5 | (B) June 5 |
| (C) October 5 | (D) September 5 |

91. The temple entry proclamation of Sree Chithira Thirunal was in the year :

- | | |
|----------|----------|
| (A) 1933 | (B) 1934 |
| (C) 1935 | (D) 1936 |

92. The ozone layer restricts :

- | | |
|---------------------------|---------------------------|
| (A) Visible light | (B) Infrared radiation |
| (C) Ultraviolet radiation | (D) X-rays and Gamma rays |

93. Each year World Red Cross and Red Crescent day is :

- | | |
|----------------|--------------|
| (A) May 8 | (B) May 28 |
| (C) January 10 | (D) March 20 |

94. The proposed Ken-Betwa river linking project is in which state?

- | | |
|-----------------|--------------------|
| (A) Maharashtra | (B) Odisha |
| (C) Gujarat | (D) Madhya Pradesh |

95. The uprising of 1857 was described as the first war of Indian Independence by :

- | | |
|----------------|-------------------|
| (A) B.G. Tilak | (B) V.D. Savarkar |
| (C) S.N. Sen | (D) R.C. Majumdar |

96. The title of 'Viceroy' was added to the office of the Governor General of India for the first time in :

- | | |
|----------|----------|
| (A) 1848 | (B) 1856 |
| (C) 1858 | (D) 1862 |

97. Who among the following belong to Moderates?

- | | |
|---------------------|-----------------------|
| (A) B.G. Tilak | (B) W.C. Banerjee |
| (C) Lala Lajpat Rai | (D) Bipin Chandra Pal |

98. Cripps Mission arrived in India in the year :

- | | |
|----------|----------|
| (A) 1947 | (B) 1946 |
| (C) 1942 | (D) 1940 |

99. The Indian who attended all the Three Round Table Conference was :

- | | |
|-------------------------|--------------------|
| (A) Dr. B.R. Ambedkar | (B) Mahatma Gandhi |
| (C) Muhammad Ali Jinnah | (D) Annie Besant |

100. Who is the father of English poetry?

- | | |
|---------------------|----------------|
| (A) Milton | (B) Wordsworth |
| (C) Charles Dickens | (D) Chaucer |