

Section-I: English

- Q. 1 The action of killing a king is:
- (A) Fratricide (B) Matricide
(C) Regicide (D) Genocide
- Q. 2 Find out part of speech written in bold: Sit **besides** me.
- (A) Preposition (B) Conjunction
(C) Adverb (D) Adjective
- Q. 3 Select the pair which has the same relationship - indigent: wealthy
- (A) cultural : civilized (B) Irrate : vexed
(C) gawky : dignified (D) indigenous : aboriginal
- Q. 4 Bolt from the blue:
- (A) Thundering (B) A complete surprise
(C) Inform something bad (D) Unconcerned
- Q. 5 Arrange the following words in order to complete the sentence: **All such students...**
- a. in every walk of life
b. and get recognition
c. who are diligent and honest
d. flourish
- (A) cdba (B) abcd
(C) adcb (D) cabd
- Q. 6 Synonym of embezzle is:
- (A) Appropriate (B) Remunerate
(C) Bequath (D) Misappropriate
- Q. 7 Kalam is known for his wisdom. Wisdom is a/an:
- (A) Proper noun (B) Abstract noun
(C) Common noun (D) Material noun
- Q. 8 The study on economic evaluation is an eye opener and **attempts to acquaint** everyone with the problems of poor nations: Correct the sentence
- (A) Attempting to acquaint (B) Attempted to acquaint
(C) Attempts at acquainting (D) Attempt to acquaint

Q. 9 Choose the correct meaning of the idiom given in bold: He just paid him a left-handed compliment:

- (A) A well deserved
(C) An insincere

- (B) An honest
(D) A flattering

Q. 10 Sheena was -----by her employees as she often -----them for not working sincerely.

- (A) disregarded, applauded
(C) scolded, adored

- (B) revered, hounded
(D) despised, reprimanded

Section II: Hindi

Q. 11 भाषा की सबसे छोटी सार्थक इकाई क्या है ?

- (A) ध्वनि
(C) शब्द

- (B) वर्ण
(D) वाक्य

Q. 12 'निष्कपट' का संधि विच्छेद है।

- (A) नि+कपट
(C) निश्+कपट

- (B) निः+कपट
(D) निष्+कपट

Q. 13 'मेहनत करो ताकि सफलता आपके कदम चूमे।' वाक्य में ताकि शब्द अव्यय है ?

- (A) सम्बन्ध बोधक अव्यय
(C) व्यधिकरण समुच्चयबोधक

- (B) समानाधिकरण समुच्चयबोधक
(D) क्रियाविशेषण अव्यय

Q. 14 'पुत्र को देख माता का चेहरा खिल गया।' वाक्य में विधेय है।

- (A) पुत्र को देखकर
(C) चेहरा खिल उठा पुत्र को देखकर

- (B) माता का चेहरा खिल उठा
(D) पुत्र

Q. 15 वक्ता को तत्काल विषय देकर विचारों को क्रमबद्ध रूप से आयोजित कर प्रभावी रीति से प्रस्तुत करना कहलाता है?

- (A) साक्षात्कार देना
(C) सभा-संचालन

- (B) आशुभाषण
(D) परिचर्चा

Section-III: Himachal General Knowledge & Current Affairs

Q. 16 When was Mukhya Mantri Gram Kaushal Yojna started in HP ?

- (A) 6 January 2021 (B) 6 January 2020
(C) 21 July 2021 (D) 21 July 2020

हिमाचल प्रदेश में मुख्यमंत्री ग्राम कौशल योजना कब शुरू की गई थी ?

- (A) 6 जनवरी 2021 (B) 6 जनवरी 2020
(C) 21 जुलाई 2021 (D) 21 जुलाई 2020

Q. 17 Select the incorrect statement in respect of Seabuckthorn:

- (A) Rich source of vitamins and minerals
(B) This is a shrub which produces edible berries of crimson colour
(C) Commonly known as *chharma* in HP
(D) Fruit berries are acidic in nature

सीबकथॉर्न के संबंध में गलत कथन का चयन करें।

- (A) विटामिन और खनिजों का एक समृद्ध स्रोत है।
(B) यह एक झाड़ी है जो क्रिमसन रंग की खाने योग्य बेरी पैदा करती है।
(C) इसे आमतौर पर एचपी में छरमा के रूप में जाना जाता है।
(D) फल बेरी प्रवृत्ति में अम्लीय होते हैं।

Q. 18 The average elevation of Pir Panjal Mountain Range is :

- (A) 1400-4100 m (B) 4775-5585 m
(C) 4225-4889 m (D) 4636-5565 m

पीर पंजाल पर्वत श्रृंखला की औसत ऊंचाई कितनी है?

- (A) 1400-4100 m (B) 4775-5585 m
(C) 4225-4889 m (D) 4636-5565 m

Q. 19 Which of the following Guler Ruler was named as '*Sher Afgan*' by Shahjahan?

- (A) Vikram Singh (B) Hari Chand
(C) Man Singh (D) Prithvi Chander

निम्नलिखित में से किस गुलेर शासक को शाहजहाँ द्वारा 'शेर अफगान' के रूप में नामित किया गया था।

- (A) विक्रम सिंह (B) हरी चन्द
(C) मान सिंह (D) पृथ्वी चंद्र

Q. 20 Name the first player from HP state who won medal in National Para Table Tennis?

- (A) Nishad Kumar
(C) Varun

- (B) Piyush Sharma
(D) Sharad Kumar

राष्ट्रीय पैरा टेबल टेनिस में पदक जीतने वाले हिमाचल प्रदेश राज्य के पहले खिलाड़ी का नाम बताएं?

- (A) निषाद कुमार
(C) वरुण

- (B) पियूष शर्मा
(D) शरद कुमार

Q. 21 Select the right statement for introduction of 'Monk fruit' in HP.

- (A) CSKHPKV in Palampur
(C) CSIR-IHBT in Kullu

- (B) UHF Nauni in Kullu
(D) CSIR-IHBT in Mandi

हिमाचल प्रदेश में 'मोंक फल' की शुरूआत के लिए सही कथन का चयन करें।

- (A) सी एस के एच पी के वी ने पालमपुर में
(C) सी एस आई आर-आई एच बी टी ने कुल्लू में

- (B) यू एच एफ नौणी ने कुल्लू में
(D) सी एस आई आर-आई एच बी टी ने मंडी में

Q. 22 By whom in HP, the 'Veerangana Souvenir' was released on International Women's Day celebrated on 8 March, 2021?

- (A) Chief Minister
(C) Health Minister

- (B) Education Minister
(D) Governor

हिमाचल प्रदेश में किसके द्वारा 8 मार्च, 2021 को मनाए गए अंतर्राष्ट्रीय महिला दिवस पर 'वीरंगना स्मारिका' जारी की गई?

- (A) मुख्यमंत्री
(C) स्वास्थ्य मंत्री

- (B) शिक्षा मंत्री
(D) गवर्नर

Q. 23 Which of the following Mountain Pass connects Himachal with Tibet?

- (A) Shingo La
(C) Shipki La

- (B) Baralacha La
(D) Zoji La

निम्नलिखित में से कौन सा पर्वत दर्रा हिमाचल को तिब्बत से जोड़ता है?

- (A) शिनो ला
(C) शिपकी ला

- (B) बारालाचा ला
(D) जोजी ला

Q. 24 Who wrote the book named 'Himalayan Pilgrimage'?

- (A) Kanchan Sharma
- (C) Yashpal

- (B) Ram Rahul
- (D) BN Dataar

‘हिमालयन पिल्ग्रिमेज’ नामक पुस्तक किसने लिखी है?

- (A) कंचन शर्मा
- (C) यशपाल

- (B) राम राहुल
- (D) बी एन दातार

Q. 25 In which year National Great Himalayan Park, Kullu was listed under UNESCO World Heritage?

- (A) 2010
- (C) 2014

- (B) 2011
- (D) 2013

नेशनल ग्रेट हिमालयन पार्क, कुल्लू को किस वर्ष यूनेस्को की विश्व विरासत के तहत सूचीबद्ध किया गया था?

- (A) 2010
- (C) 2014

- (B) 2011
- (D) 2013

Section-IV: Computer Science

Youtube Channel-- Gk Sansaar

Q. 26 Choose the correct statement:

- (A) Optical Character Reader (OCR) and Optical Mark Recognition (OMR) are examples of Input devices.
- (B) Optical Character Reader (OCR) and Optical Mark Recognition (OMR) are examples of Output devices.
- (C) Optical Character Reader (OCR) is Input device whereas Optical Mark Recognition (OMR) is example of Output device.
- (D) Optical Mark Recognition (OMR) is example of Input device whereas Optical Character Reader is Output device.

Q. 27 Which among the following statements is wrong?

- (A) Machine language and Assembly language are examples of High Level Language.
- (B) Machine Language some- times also refers to Object code.
- (C) Assembly Language uses the Mnemonics to represent instructions.
- (D) Java is platform independent language.

Q. 33 What is the full form of SMTP?

- (A) Simplex Mail Transfer Protocol
- (C) Simple Mail Transfer Protocol

- (B) Single Mail Transfer Protocol
- (D) Simple Mail Transmission Protocol

Q. 34 Consider following C program:
`#include <stdio.h>`

```
int main(){
```

```
int arr[]={1,2,3,4,5,6,7,8,9,0,1,2,5}, *ip=arr+4;
```

```
printf("%d\n", ip[2]);
```

```
return 0;
```

```
}
```

The number that will be displayed on execution of the program is _____ .

- (A) 5
- (C) 3

- (B) 6
- (D) 7

Q. 35 The command in LINUX OS to check the Bad Sectors in your pen drive is :

- (A) `fsck -l /dev/sdc1`
- (C) `fscan /dev/sdc1`

- (B) `fdisk -l`
- (D) `fix -l /dev/sdc1`

Q. 36 Combination of multimedia and hyperlinks is called as :

- (A) Hypertext
- (C) Multitask

- (B) Media
- (D) Hyper task

Q. 37 The standard protocol of the Internet is :

- (A) HTML
- (C) TCP/IP

- (B) Java
- (D) Flash

Q. 38 Which escape character can be used to begin a new line in C?

- (A) `\a`
- (C) `m`

- (B) `\b`
- (D) `\n`

Q. 28 The data in excel sheet should be in which of the following format to use it in order to create a "Mail Merge" in Microsoft Word Document.

- (A) Table format, without headers on each column only with the necessary information in each column
- (B) Table format, with headers on each column and then the necessary information in each column
- (C) Both above options (A) and (B) are correct for 'Mail Merge'
- (D) None of the above

Q. 29 Switching the CPU to another process requires:

- (A) saving the state of the new process and loading the saved state for the old process
- (B) saving the state of the old process and loading the saved state for the new process
- (C) saving the state of the old process and loading the saved state for the old process
- (D) saving the state of the new process and loading the saved state for the new process.

Q. 30 With respect to the statement 'MS Word is running on a Windows machine', which of the following statement is correct?

- | | |
|--|--|
| (A) Application software load before System software | (B) Application software cannot load after System software |
| (C) System software load before Application software | (D) System software load after Application software |

Q. 31refers to a reversible step by step process in which a given set of relations is replaced by successive collections of relations that have a progressively simpler and more regular structure.

- | | |
|----------------------|-----------------|
| (A) Normalization | (B) Primary Key |
| (C) Pattern matching | (D) Table |

Q. 32 Select the correct option for the Distance Vector Routing :

- (A) Only distance vectors are exchanged. 'Next hop' values are not exchanged. This is because it results in exchanging the large amount of data which consumes more bandwidth.
- (B) While preparing a new routing table-A router takes into consideration only the distance vectors it has obtained from its neighboring routers. It does not take into consideration its old routing table.
- (C) The algorithm keeps on repeating periodically and never stops. This is to update the shortest path in case any link goes down or topology changes.
- (D) All above options are correct.

Q. 39 The operator && is a operator :

- (A) Assignment
- (C) Logical

- (B) Increment
- (D) Rational

Q. 40 The text color in a presentation should contrast with the colour of :

- (A) Background
- (C) Stack

- (B) Frame
- (D) None of these

Q. 41 Select the option which does not represent example of multicast :

- (A) Sending a message to a particular group of people on WhatsApp
- (C) Class taken by a faculty using MS team/google meet app

- (B) Video conference teleconference
- (D) Transmission of a television channel

Q. 42 Select the correct option for the given IP address 300.1.2.3 :

- (A) This is not a valid IP Address.
- (C) This is because for any given IP Address, the range of its first octet is always [1, 254].

- (B) First and Last IP Addresses are reserved.
- (D) All above options are correct

Q. 43 The following statement is false with respect to Hamming code :

- (A) If there is a hamming distanced between two code words then it will require single-bit errors to convert one into the other.
- (B) The parity bit is chosen so that the number of 1 bits in the codeword is even (odd).
- (C) The bits that are powers of 2 (1, 2, 4, 8, 16, etc.) are message bits.
- (D) None of the above

Q. 44 Given a message 1010000 with a generator polynomial x^3+1 , then what should be the transmitted message using this generator polynomial :

- (A) 1010000001
- (C) 1010000100

- (B) 1010000011
- (D) 1010000101

Q. 45 If the bandwidth of the line is 1.5 Mbps, RTT is 45 msec and packet size is 1 KB, then find the link utilization in stop and wait flow control protocol :

- (A) 10.8 %
- (C) 12.3 %

- (B) 9.2 %
- (D) 5.2 %

Q. 46 The maximum window size for data transmission using the selective repeat protocol with n bit frame sequence numbers is :

- (A) 2^n
- (C) $2^n - 1$

- (B) $2^{(n-1)}$
- (D) $2^{(n-2)}$

Q. 47 Select the correct option :

- (A) Flooding is static routing algorithm in which every incoming packet is sent out on every outgoing line except the one it arrived on.
- (B) Static algorithms do not take the current network load into account whereas Distance vector routing algorithms operate by having each router maintain a table (i.e., a vector) giving the best-known distance to each destination and which line to use to get there.
- (C) In flow control routing algorithm, the route is decided based on traffic, i.e., if traffic is heavy in a shortest path, then it is diverted to low traffic route even if it is the longest path to reach the destination node.
- (D) All above options are correct.

Q. 48 Let an array A is defined as $\text{int } A[3][5] = \{1..5, 6..10, 11..15\}$, where an integer takes 4 bytes of memory. If the base address of A is 1000 then the memory location of $A[1][4]$ will be:

- (A) 1036
- (C) 1028

- (B) 1032
- (D) 1020

Q. 49 What is the value of the postfix expression $6\ 3\ 2\ 4\ +\ -\ * : ?$

- (A) 1
- (C) 18

- (B) 40
- (D) -18

Q. 50 A graphics card has on board memory of 1 MB. Which of the following modes can the card not support?

- (A) 1600 x 400 resolution with 256 colors on a 17 inch monitor
- (B) 1600 x 400 resolution with 16 million colors on a 14 inch monitor
- (C) 800 x 400 resolution with 16 million colors on a 17 inch monitor
- (D) 800 x 800 resolution with 256 colors on a 14 inch monitor

- Q. 51 The short cut to Add multiple rows/Columns above/below of a row in a Microsoft Word Document is :
- (A) Select multiple ROWS/ COLUMNS then press right click mouse button and choose option Insert rows above/below
 - (B) CTRL + I
 - (C) CTRL + A
 - (D) CTRL + J
- Q. 52 The 'Mail Merge' Option in Microsoft Word Document is found under which option?
- (A) References
 - (B) View
 - (C) Review
 - (D) Mailings
- Q. 53 The correct option for Primary Key and Unique Key is :
- (A) Both are selected from candidate key
 - (B) The Primary Key can be only one for a table whereas Unique Key can be more than one
 - (C) Both options (A) and (B) are True
 - (D) Either option (A) is True or (B) is True
- Q. 54 Find the decimal equivalent of binary number:
 $(1101.0111)_2 = (?)_{10}$
- (A) 12.4375_{10}
 - (B) 13.4375_{10}
 - (C) 13.7543_{10}
 - (D) 12.7543_{10}
- Q. 55 In ASP.net the 'web.config' file is used for which of the following?
- (A) To store the global information and variable definitions for the application
 - (B) To configure the web server
 - (C) Configures the time that the server-side code behind the module is called
 - (D) To configure the web browser
- Q. 56 The default web server used in LINUX OS based machine is:
- (A) Gunicorn
 - (B) Apache
 - (C) IIS
 - (D) Kestrel
- Q. 57 A 1GHz CPU (Central Processing Unit) can carry how much maximum instructions per second:
- (A) 1 billion
 - (B) 10 billion
 - (C) 1 million
 - (D) 10 million

- Q. 58** The function `sprintf()` works like `printf()` but operates on :
- (A) Data in a file (B) stderr
(C) stdin (D) string
- Q. 59** Which of following command is used to delete a table from the database?
- (A) Delete Audio (B) Drop
(C) Alter (D) Truncate
- Q. 60** The core of LINUX Operating System is called as :
- (A) Kernel (B) Shell
(C) Application (D) System Utility
- Q. 61** Which one of the following is not a part of network topologies?
- (A) Bus (B) Moon
(C) Tree (D) Star
- Q. 62** Maintaining and assuring the accuracy and consistency of data is called as :
- (A) Data Cleansing (B) Data Compiling
(C) Data Integrity (D) Data Manipulation
- Q. 63** What is the full form of AVI?
- (A) Video Interchange (B) Audio Video Intercept
(C) Audio Video Intersect (D) Audio Video Interleave
- Q. 64** Which of the following shortcut key is used to set 1.5-line spacing in MS Word ?
- (A) Ctrl +1 (B) Ctrl +2
(C) Ctrl +5 (D) Ctrl +3
- Q. 65** Which is not a part of unguided media?
- (A) Microwave (B) Satellite
(C) Wi-Fi (D) Twisted Pair
- Q. 66** The function that is created from a call to a template function is known as :
- (A) generated (B) inherited
(C) spawned (D) declassified

- Q. 67 Which of following network protocol is used to send e-mail?
- (A) STP (B) SSH
(C) POP3 (D) SMTP
- Q. 68 Different computers are connected to a LAN by a cable and :
- (A) Modem (B) Network Interface Card
(C) Special wires (D) Telephone lines
- Q. 69 Integer division in a 'C' program results in..... :
- (A) Overflow (B) Rounding
(C) Underflow (D) Truncation
- Q. 70 denotes an error in a computer program :
- (A) Bit (B) Bug
(C) Spam (D) Byte
- Q. 71 CLR is .NET equivalent of?
- (A) Common type system (B) Common runtime language
(C) Java Virtual Machine (D) Common Language Specification
- Q. 72 A video consists of a sequence of :
- (A) Frames (B) Signal
(C) Packets (D) Slots
- Q. 73 'IP' of TCP/IP is :
- (A) Connection oriented protocol (B) Connectionless protocol
(C) Breaks the data into packets (D) Verifies the data
- Q. 74 Select the incorrect option. :
- (A) Transmitting data from one source host to one destination host is called a Unicast.
(B) Transmitting data from one source host to all other hosts residing in the same network is called a limited Broadcast.
(C) Transmitting data from one source host to a particular group of hosts having interest in receiving the data is called Multicast.
(D) Multicast is a one-to-one transmission.

Q. 75 The cryptography techniques Encryption and Decryption works at which layer of OSI model :

- | | |
|---------------------|------------------------|
| (A) Physical Layer | (B) Network Layer |
| (C) Data Link Layer | (D) Presentation Layer |

Q. 76 A physical path is established in all the way from sender to the receiver is known as :

- | | |
|-----------------------|------------------------|
| (A) Message switching | (B) Packet Switching |
| (C) Circuit Switching | (D) All above are True |

Q. 77 Select the incorrect option :

- (A) Both sender and receiver use a common key to encrypt and decrypt the message in public key cryptography.
- (B) If N people in the world wants to use symmetric key cryptography, then there needs to be $N(N-1) / 2$ secret keys.
- (C) In Asymmetric key cryptography the sender and receiver both use different keys to encrypt and decrypt the message.
- (D) For n individuals to communicate by Asymmetric key cryptography, number of keys required = $2 \times n = 2n$ keys.

Q. 78 Consider following pseudo-code of data structure:

```
struct node{  
    int data;  
    struct node *prev, struct node * next  
};
```

- | | |
|--------------------------|------------------------|
| (A) Single Linked List | (B) Doubly Linked List |
| (C) Circular Linked List | (D) STACK |

Q. 79 In a stack, if a user tries to remove an element from empty stack it is called as :

- | | |
|---------------|------------------------|
| (A) Underflow | (B) Empty collection |
| (C) Overflow | (D) Garbage Collection |

Q. 80 The relation R(A, B, C, D) with functional dependencies as {A->B, A->C, C->D, C->A} is in following Normal Form (NF):..... :

- | | |
|-----------------------------|------------------------|
| (A) BCNF | (B) 3 NF but not BCNF |
| (C) Only 2 nd NF | (D) 1 st NF |

Q. 81 By default, the ASP.net stores the Session ID's in :

- | | |
|--------------|---------------------|
| (A) Cache | (B) Cookies |
| (C) Database | (D) Global Variable |

- Q. 82 The LINUX OS command to give read, write, and execute permission to all i.e., user, group, and others is :
- (A) chmod 777 (B) chmod 767
(C) chmod 655 (D) chmod a+x
- Q. 83 Arrays can be initialised provided they are :
- (A) Automatic (B) External
(C) Static (D) Both B and C
- Q. 84 Which of the following is not a DBMS Software?
- (A) MS Access (B) MySQL
(C) Oracle (D) MS Excel
- Q. 85 Consider the following four processes with arrival times (in milliseconds) and their length of CPU bursts (in milliseconds) as shown below :

Process	P1	P2	P3	P4
Arrival time	0	1	3	4
CPU burst time	3	1	3	Z

These processes are running on a single processor using preemptive Shortest Remaining Time First scheduling algorithm. If the average waiting time of the processes is 1 millisecond, then the value of Z is _____.

- (A) 1 (B) 2
(C) 3 (D) 4