केवल परीक्षक द्वारा भरा जावे। प्रश्न क्रमांक के सम्मुख प्राप्तांकों की प्रविष्टी करें।

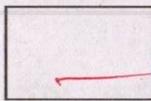| प्रश्न क्रमांक	पृष्ठ क्रमांक	प्राप्तांक (अंकों में)	प्रश्न क्रमांक	पृष्ठ क्रमांक	प्राप्तांक (अंकों में)
1			17		
2			18		
3			19		
4			20		
5			21		
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7			23		
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परीक्षक एवं उपमुख्य परीक्षक द्वारा भरा जावे ↓

→ परीक्षक एवं उपमुख्य परीक्षक द्वारा भरा जावे

प्रमाणित किया जाता है कि अन्दर के पृष्ठों के अनुरूप मुख्य पृष्ठ पर अंकों की प्रविष्टी एवं अंकों का योग सही है।

निर्धारित मुद्राः नाम, पदनाम, मोबाईल नम्बर, परीक्षक क्रमांक एवं पदांकित संस्था के नाम की मुद्रा लगाएं।

उपमुख्य परीक्षक के हस्ताक्षर एवं निर्धारित मुद्रा

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परीक्षक के हस्ताक्षर एवं निर्धारित मुद्रा

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②

योग पूर्व पृष्ठ

प्रश्न क्र.

Question no. 1

Answer no. 1   1998

Answer no. 2   Measurable

Answer no. 3   Structured Query Language

Answer no. 4   Last in First Out (LIFO) lis

Answer no. 5   Software Development Life cycle

Question no. 2

(I) syntax Error :- Buit in Exception

(II) Python file Extension :- .py

(III) Spiral Model :- Meta model

(IV) Agik :- The ability to respond to change

(V) Phishing and fraud Emails :- Cyber crime

प्रश्न क्र.

Question no. 3

Answer no. 1   True.

Answer no. 2   True.

Answer no. 3   True.

Answer no. 4   false

Answer no. 5   True.

Question no. 4

Answer no. 1   (d) This is my house   (c) non-responding

Answer no. 2   (d) This is my house

Answer no. 3   (b) 5

Answer no. 4   (d) hoogle

Answer no. 5   (IV) create

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Answer no. 5

Stress :- Stress is defined as the mental state of human when he she is not able to think properly and is stressed due to stressers that may be social, behavioural, worker etc.

Steps of stress mangement :-

(i) Fresh air and daily exercise :- fresh air, yoga and meditation can help cope up with stress.

(ii) Going on vocation with family and friends :- Take a break from your daily life chaos to meet family and relatives.

(iii) Healthy diet :- A healthy mind rests in healthy body.

(iv) Organise yourself :- plan your daily activities make proper

timetable and complete task on time to reduce stress.

ⓥ Positive Thinking :— Think positively no matter what the situation is.

Answer no. 6

Types of data In spreadsheet :—

① Character :— It consists of the alphabetical values a-z and A-Z. It specifies a character type data of length (n) where n can be any integer from 0 to 255.

② Numeric Data Type :—
(interger) It consists of interger data type. where each integer occupies 4 byte. Range is from −2147483648 to 2147483647.

③ Date :— It is used for representation of date and time in a row of spreadsheet.

④ float :— It consists of numeric value with decimal place.

⑤ Varchar (n) :— It specifies character value of infinite length. Range 0-65535.

प्रश्न क्र.

Answer no. 7

Primary key :- Primary key in RDBMS refers to the field value that uniquely identifies a record. in table. for example in the student record database student roll no. or enrollment number is unique thus it can identify each record uniquely in a table.

Roll no.	Student Name	Phone no.
2426	Jaiveer	9893 542612
2427	Divyanshu	9894242424
2428	Shudhanshu	x x 832464
2429	Adarsh	412452869

↑
primary key

प्रश्न क्र.

Answer no. 8

Different method provided by file object to read and write data from file are:-

① read() :- It reads the entire content of the file and returns and string value

② read line () :- It reads all the lines from the file and returns a string value.

③ read lines () :- It returns a list where each member is a line of table.

④ write () :- It is used to supply a string value to the file

⑤ write lines() :- It is used to write a list into the file.

⑥ append () :- it is used to supply a string value to a file without overwriting its content.

Answer no. 9

Active listening refers to the complete process of listening the speaker then understanding what is interpreted judge the sender and then reply based on our knowledge prespective. Active listening involves eye contact with the sender, body language, straight posture. etc. By active listening we can understand clearly the message that is passed on by sender and then accordingly do the needed task it is a very important part of effective communication. The stages of active listening includes :-

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① Receiving :— Listen to the message that is been passed to us from sender.

⑪ Understanding :— Interpreting the message that is sent to us.

⑪⑪ Evaluating :— Based on our knowledge evaluating the need of communication

⑩ Respond :— feedback in response to complete communication.

-Answer no. 10

five purpose of software engineering are :-

① Large software :- It is easy to built a wall than building a house. Similarly as the software increases in size software engineering helps us to maintain such a large software.

② Scalability :- If a software is created using correct scientific principles and methods then it is easy to create a new one.

③ Cost :- By using correct software engineering methods cost of software can be reduced.

④ Dynamic nature :- A software is dynamic i.e. it keeps on changing and it should change with time. software engineering helps in this.

⑤ Quality management :- If the steps of creation of software are best then quality of software is also enhanced.

प्रश्न क्र.

Answer no. 11 (11)

Qualities of a successful entrepreneur :-

(I) __Decissiveness__ :- An entrepreneur must be strong enough to take quick and profitable decision.

(II) __Willingness to take risk__ :- An entrepreneur must be ready to take risk. in ideas and bussiness.

(III) __Self confident__ :- An entrepreneur must think of his idea as the best and then work on to implement it.

(IV) __motivated__ :- An entrepreneur must need to be motivated to obtains rewards and profit by providing better services for the society.

(V) __Hardworking__ :- An entrepreneur must work hard to complete their aims and target. so as to grow bussiness.

प्रश्न क्र.

(vi) Perseverance :— An entrepreneur must keep going irrespective of the difficult situation he/she may face.

Answer no. 12

Structured Query Language (SQL) is a specialised query language that is used to create, update, modify, manage, retreive and delete a database.

Types of structured Query Language

(i) Data Definition Language (DDL)
(ii) Data Manipulation Language (DML)
(iii) Data Query Language (DQL)
(iv) Data Control Language (DCL)
(v) Transaction Control Language (TCL)

(1) Data Definition Language :— Data definition Language is a subtype of structured query Language (SQL). it manages the database schema and structure.

प्रश्न क्र.

DDL statement in my SQL are used to create, alter and create objects like tables indexes and stored procedures.

(I) Create :- Used to create a database object

(II) Alter :- used to change or alter structure of database

(III) Drop :- used to delete an object in database

(IV) Rename :- used to rename an object

(V) Truncate :- used to delete the contents of a table.

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(II) Transaction control Language :- Transaction control language is a subtype of structured Query Language that is used to manage transaction in a database. It is used to manage the changes that occurs in database and executes a program to check the proper functioning of database

(III) Data Control language :- Data control language is a subtype of SQL that is used to manage security and permission of a database
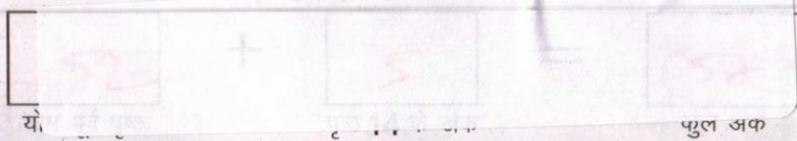
(I) Grant Statement :- It is used to provide access or privilege to a user for data in database.

(II) Revoke statement :- It is used to snatch away access or privilege from user granted by Grant statement.

Answer no. 13

file system	Database management system
(I) It is a software to manage and store files in secondary storage device.	(I) DBMS is a software that is used to hold, create, update and manage a database.
(II) Access and Retreival of data cannot be done efficiently in file system.	(II) DBMS DBMS provides a user friendly and easy interface to access data.
(III) It does not provide crash recovery mechanism	(III) It provide crash recovery mechanism.

file system	DBMS
(10) Data inconsistency is high in file system.	(iv) Data inconsistency is reduced.
(v) It has lesser security.	(v) It has more security.

Answer no. 14

Exception handling is a very important process. Exception handling takes place during verification of algorithm, formation or later during regular checkups of program or function.

Exception handling is done by experts they know to handle exception, to locate exception and errors in program for smooth functioning and smooth interface of program. Exceptions may also lead to hackers hacking a device, therefore exception handling is very important for handling of program.

प्रश्न क्र.

<u>Answer no. 15</u>

five differences between program and software :—

(I) A software is dependent on Operating system, whereas a program depends on compiler.

(II) A software offers and interface whereas a program does not have any interface.

(III) The size of software is MB to GB and size of program is MB to KB.

(IV) A program cannot be a software but a software cannot be a program.

(V) A software is created only by an expert, experienced or trained coder. but a program can be developed by a new programmer also.

<u>Answer no. 16</u>

Built in exception in python are some most commonly occuring exception that python determines through its compiler. The python remembers this exception and provides the corrective measure regarding the resolving of error. This are identified immediately by

python IO Library. These built in exception help in avoiding the chances of error. and quickly determining the right pathway to correct the error for smooth functioning of code or program.

tive built in exception :-

(1) syntax Error :- This exception occurs when there is any mistake in coding or in the syntax of program.

(II) Run time error :- This exception occurs due to python compiler or not able to compile the code.

(III) Data type error :- This type of error occurs when the entered data type does not matches with the one provided by python.

(10) file not found error :- This type of error occurs when the file is not present in the system

Value error :- This type of error error occurs due to mismatching value or when provided value do not match datatype.

zero Division error :- This error occurs when we divide a value by zero.

Answer no: 17

(i) Selection Sort :- selection sorting is a type of sorting technique is selection sorting. In this sorting technique the value to be sorted is matched with the elements in the list one by one. It divides the list into two parts left list and right list. The left list is sorted and the right list in unsorted. The left list is initially empty and the right list contains all the entries. To sort an n element list, selection sort (n-1) passes through the element in the list.

To sort the data in ascending order. The sort is passed through unsorted list to find the minimum value and then it is exchanged with leftmost value of unsorted list.

प्रश्न क्र.

(1) Bubble sort :- Bubble sort is another technique of sorting provided by python in in which an element list can be sorted in ascending or descending order. The notion is that if we know the exact value of each index in a list we can check whether a key is present or absent in a list in a single step and then sort the list as per the requirement of our programme. It intensifies the search process.

Answer no. 18

Black Box Testing :- Black Box testing is a software testing principle in which the external functionalities of a software is checked. It does not any role to check the logical design, code, and structure of software. It only rely on the input and output. The tester does not need to know the internal coding technology but only need to check functionality and stability of a software. It is also known as close box testing. Regression testing is an example of Black Box testing.

White Box Testing :— White box testing is a software testing in which the tester checks the internal functionalities of a software. Like it is logical structure, code and program. To perform white box testing successfully one need to have knowledge of internal technology. It is also called open box testing or clear box testing. unit testing and group, integration testing are example of this.

—Answer no. 19

Web of Things :— Web of things is a technology of interconnected web browsers and web activity. A person using internet has some data trails left in internet that represent their online habit is called as digital web things and activity. All the Information technology divices that are present online fall under web of things. It help in connection across platform in the cloud which receives input and output and process the information, and they

establish relations, link between several IOT that are part of server in which programmers are housed. It is a technology that deals with processing of online information.

Hacking :— Hacking refers to the activity of unauthorized access to users data and thus access to its sensitive content and private files or introduction of a virus program that may crash the entire system of user thus preventing user access to their own data. There are usually two type of hacking black hat hackers and white hat hackers. Black hat hackers usually hack the system in order to theft the sensitive information from users system or to crash their system. White hat hackers are ethical hackers that hack the software to help the applicant to rectify their flaws and to check the flaws in security system.

प्रश्न क्र.

Example of hacking :-

~~Database~~

(1) Phishing and fraud E-mails :- Phishing refers to hacking activity in which fraudulent E-mails from trusted source comes and as soon as one gets tempted. the system gets hacked.

(II) ~~fr~~ Ransom ware :- Unauthorized access to user data and then blackmailing him not to get acess.

Answer no. 20

Database Management System (DBMS) is a set of underlying software components that help in creating. manipulation, storing, accessing, retrieving and debugging a database. It is helpful to work with database in an user friendly manner. It acts as an interface between the user and database. It provides an abstract view of data thus hides the data storage details. Relational Database Management system RDBMS is an ~~eh~~ enhanced version of DBMS defined by Dr. EF Codd.

Some DBMS software are :- MS Access, ~~SQL~~ SQL server, oracle, Informix. etc.

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प्रश्न क्र.

four Advantages of DBMS :-

(1) Provides and user freiendly interface for the management of database

Reduced data inconsistency, easy access to data, enhanced security of files.

Minimum data redundancy, controlled data access.

Crash recovery mechanism, easy retreival of information

four disadvantages of DBMS :-

(1) Cost of hardware and software is high that can increase budget of your organisation.

(II) DBMS is complex to use hence it · requires special training for employees

(III) If the same program is accessed by multiple users at a time the program may ~~crash~~ crash.

(IV) It requires a high speed processor for processing