UNITS OBJECT-ORIENTED PROGRAMMING (QOP)

1 What is object oriented programming? write any Five Characked of oop. AND Five Features of OOD.

=> OBject oriented programming is programming methodology that ties data more closely to the functions that operate on it, and protects it from accidental modification from outside function.
Following are the Five haracterstremstre.

· Emphasis is on data rather procedures.

· Programs are divided into objects

· Data Structures are designed such that they characterize

Data is hidden and can't be accessed by external functions · New data and Function can be easily added whenever

Following are the Five features.

· objects

class

Encapsulation

Data abtraction

· Inheritance

· polymorphism

@Object: object is the basic run time entitles in cop which consists of date and functions. It may represent a person, place, bank paccount, table of data etc.

6 Encapsulation: The wrapping of related data and function into a single unit is Known as encapsulation. It is a data hiding or process of binding data member into a Single unit class.

- representing essential features to outside world, without including the background details or explanation.
 - and behavior. It allows a programmer to reuse the behavior of a class in the definition of new classes.
- @ Polymorphism: Polymorphism is an important concept of object-oriented programming. It means more than one form. That is, the same entity (function or operator) behaves differently in different scenarios.

@ Differentiate between pop and oop.

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1	Procedural programming	Object oriented programming			
	·It deals with programs and	. It deals with object			
	function creditect	and their properties			
	popuses the top. down approach.	· cop uses bottom up			
1	ecto	approch.			
31	· No access mo difrers are	means of across modifiers.	50		
The state of the s	· There is no-data-hiding . mechanism in pop	Data can be hidden using encapsulation.			
Si	ecto	(0	70		
	· Object function are elinited message passing.	parameter passing is involved in message. passing.	,		
	100,	40			

Credited

olifecto

3 What is structured pragramming? How it driven from

exam driven program (oop).

=> A programming a proch in which the program is made as a single structure and improved version of un-st ructured programing is known as structured programing.

Structured programming is task centre while object oriented programming is data centre. Structured programming is data centre. Structured programming is based around duta structure and subroutines. on the other hand, pop shifts your primary attention to the data itself.

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@ Distinguish between a class and an object.

3	(e),	Teo
	Class	Object.
1	· A class is a blueprint for declaring and creating objects.	An object is a class instance that allows programmers to use variable and methods from inside the class.
	· Memory is allocated to classes.	·memory is allocated to an objects in the heap memory.
1	· class can be decleared only one time	A class can be used to create many objects.
	· Class is a Logical entity	An object is a physical entity
	· we cannot manipulate class as it is not avialable in memory	- object can be manipulate.
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SExplain Different types of inheritance. @ Single Inheritance: A Single inheritance is a class derives from one base class only. This means that there is only one Subclass. Classes B Hierarchical Inheritance: More than one class enherits from colla single base class is known as therarchical Inheritanco. Class A Classe Class E Class F Class F (80) @ Hybrid: Hybrid Inheritance is usully a combination of more than one type of inheritance (Single, multiderel) Class B Class 6 Write Some merits and demerits of opp? => Merils @ Improved Software development productivity. 1 Improved Software maintaingbility @ Faster development god @ Lower cost of development @ with the help of in heritance, we can eliminate redundant code and existing classes. De-merits · cop fipically involve more dine of code than procedure rechrogram = oops are typically slower than procedural progriming · cop is not Suitable for all types of problems. · programmer need to have brilliant designing skill and programming skill along with proper planning because using oop is diffle tricky. oop can be too scalable.

Credite (Application of oops . Medio · @ Realtime: Realtime system inherits complexities and makes it difficult to build them only techniques make it easier technique those complexities. B Hypertext and hypermedia: Hypertext as Similar to regular text as it can be stored, Searched and edited easily. O OFFice automation system! These include formal as med well as informal electronic system that primarily or concerned will information sharing and communication to and from people inside and outside of he organization D Neural Networking and parallet programming; lps to oop is used in neural Networking Chip which make momeron for disabled persons. The database try to maintain a direct correspondence between the real world and database object in order to Let the object