

देव संस्कृति विश्वविद्यालय

शान्तिकुन्ज, हरिद्वार

उत्तर-पुरितका

परीकार्थी अनुक्रमोक (अंकों में) 1824014	HEA-SOL 1	-	रीश र	A	Sh	ort Ans	mer T	DC	योग/Tota
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- 1. उत्तर पुरितका में परीक्षार्थी अपना नामांकन क्रमांक केवल मुख्य पृष्ठ पर निर्धारित स्थान में ही लिखें अन्यत्र कहीं नहीं। Students must write their Enrollment Number on the Answer Booklet only at the prescribed place on the front page and nowhere else.
- 2. उत्तर पुरितका में परेशार्थी न तो कही अपना नाम लिखें और न ही कोई पहचान अंकित करें। Student should neither write their name in the Answer Booklet nor should they make any identification mark anywhere.
- 3. प्रश्न का क्रमांक सही और साफ-साफ लिखें। प्रश्न के खण्ड के साथ प्रश्न क्रमांक भी लिखें। Write the Question Number correctly and clearly. Write both the Section of the Question number.
- 4 एक प्रश्न का उत्तर समापा होने पर दूसरे प्रश्न का उत्तर नये पृष्ठ से ही प्रारम्भ करें। Start writing the answer of every question from a fresh page.
- 5- जिस प्रश्न को भी हल करें उत्तर पुरितका में उसे वही क्रम संख्या दें जो क्रम प्रश्न पत्र में दिया गया है। While answering the questions make sure that the Question number written in the Answer Booklet is the same as that given in the Question Paper.

	Short Answer:
Ans: 2	
•	Into type Conversion: It is the concept that is helpful when
	we want to store the value of one data
	type unsuinble into a variable of another data type-
	There are two type of conversion:
1-1	Implicit Conversion: This conversion is type-safe and Is don
19 -	Explicit Conversion automatically be the C# compiler.
	Ex: int i = 50;
	flocit f= 1; // implicit data type conversion
	Console. Writeline (f);
1940	
<u>D</u> *-	Explicit Conversion: These conversion we done by users
	using the pre-defined functions. Explicit
	conversions oraquire a cost operator.
	Ex = f(0) at a = 20.234f;
	int a = (int) (a: 11 explicit data type conversion
	Console. WriteLine (b);

Ans:- 3	Properties: - Properties are named members of classes, structures
	and interfaces. Member variables on methods inaclass
	on structures are to called Fields- Properties are an extension of
	fields and are an accessed using the same syntax. They use
	accessors through which the values of the private fields can be
	suad, written or mainipulated.
	Proporties do not name the storage locations. Instead, they have
	accessors that read write are compute their values.
	Types of Proporties in C#:-
<u>→</u>	Read / Write Properties - Write Properties
<u>→</u>	Read Only Properties - Auto implemented properties.
	Fx:- Public class CIS
	public int mi
	Bublic string name;
	public class (25

public static void Main (string [] avgu) CI Obj = new (II); Obj. xn = 10000; abj-name = null: Console. Writeline ("Name: FO3 In Roll No: 913", Obj. name, obj. sin); Out put: Name . Rall No: 10000

ns:- 4	Program to revouse number in (#:-
	using System:
	nome space Revense Number
	Public class Program
	static upid Main (string [] ags)
	(onsple. Write (" Enterio a Number: "); int number = int. Parse (Consple. ReadLine());
	int reminder, reverse = 0: while (number 70)
	Steminder = Number 1/2 106;

number = number /10; Sonsole. Write line 15" The Reverse ander 15: 9 reverse?"); Console. Readkey ();
Console. Write line 18" The Reverse ander is: Freverse ?");
Console. Write Line 18" The Reverse ander 15: 9 reverses"); Console. Readkey ();
Enter a Number: 78541
The Reverse onder 15: 145.87

T V	
Ans: 5	Dynamic Polymonphism: C# allows you to create abstract
	classes that are used to provide partial
	class implementation of an interface. Implementation is completed when a
	derived class inherits from it. Abstriact classes contain abstract
	methods, which are implemented by the derived class.
-	Dynamic Polymonphiem is implemented by abitalact class and visitual
	functions.
	Ext. namespace PolymorphismApplication ?
	class Parint data ?
	void print (int 1) ?
	Consok - Writeline ("Printing int: 303", 13:
	3
	Impositance of dynamic Polymonphism:
	In this process a call to a single oversidden method is colved during
	the nuntime of the program. Method oversiding is the prime example
.	of Runtime Polymonphism.
	The same name can be used which was used in expericlose and also
	user can provide more specific deffinition additional to the general in superclass.
	20/0/Cla12.

	Long Answers:
Ans:-2	
	ADD. NET Technology: ADD. NET is a data access technology
	from the microsoft NFI Fromework that
	provides communication between relational and non-relational
	system through a common set of components.
	ADD. NET is sometimes considered on evolution of Activex Date Objects
	(ADD) technology, but was changed so extensively that it can be
	considered an entirely new product.
	· ADO stands for Active X Data Objects
	· ADO 11 Microsoft Active-X component
·	1 ADD. NFT uses data in disconnected mamners. When you access
	data. ADD. NET makes a copy of the data using XMI.
	This makes ADO. NET efficient to use in networking
	In ADO. NET we can send multiple transactions using a single
	connection instance.

Win Forms Web Forms Others Date Source System. Data namespace is the one of ADD. NET and it contains Classes used by all date providers. ADD. NET is designed to be easy	Tage Comment of the second of
Data Source System. Data namespare is the one of ADO. NET and it contains Classes used by all data providers. ADO. NET is designed to be easy	 ADO. NET Asichitecture:
Data Source System. Data namespace is the one of ADD. NET and it contains classes used by all data providers. ADD. NET is designed to be easy	Web Forms Others
Connection Data Source System. Data namespace is the one of ADD. NET and it contains classes used by all data providers. ADD. NET is designed to be easy	Data Set ADO-NET
System. Data nomespace is the one of ADD. NET and it contains classes used by all data providers. ADD. NET is designed to be easy	Deta Adapted Command > Data Reador
System. Data namespare is the one of ADD. NET and it contains classes used by all data providers. ADD. NET is designed to be easy	[Connection] Octo Provider
closses used by all data providers. ADD-NET is designed to be easy	Data Source
TO Material and the second sec	 System. Data namespare is the one of ADD. NET and it contains classes used by all data providers. ADD. NET is designed to be easy to use.

	Dota Providen: The data Providen classes are meant to work with
	different kinds of data sowices. They are used to perform
	all data-management operations on specific database.
	Data Set: Data Set class provides machonisms for managing data
	when it is disconnected from the data sowice.
	Connection: The connection Object provides physical connection to the
	Data Source
	Command: - The command Object uses to perform SQL
	Statement or stored procedure to be executed at
****	the Data Source.
	Data Reader :- The PataReader Object 14 a Atream-based, forward-only
-	read-only retrieved of query result from the Date Source.
	which do not update the data.
	Data Adapter :- Data Adapter Object populate a Dataset Object with
-	orusult form a Data Source.
	Data Set: Its provides a disconnected representation of result sets
	from the Outa Sawice and it is completely independent
	from the Data Source-It provides much grater flexibility when with Routset

^	
Maswer:4	Object Oriented Programming: - Procedural programming is about
	writing procedures or methods that
	Desiform and tion of the property of the property
	periform operations on the data while object - oriented programming
	Is about cruating objects that contain both data and methods.
	OOP is faster and easier to execute
0	ODP provides a clean structure for the programs
0	ODP helps to keep the C# code DRY "Don't Repeat Yourself
	and makes the rade earlier to particle with a like of the
	and makes the code easiers to maintain, modify and debyg.
	ODP makes it possible to create full remake applications
	with less code and shorter development time.
	Object Oriented Programming provide 4 principles:
1:	- Encapsulation: It is a process of binding data members
	(variable, properties) and members functions (methods)
	into a single unit. The best example ofor encapsulation is a
	class.
-	

2:-	Inheritance: The ability to create a new class from an existing class is called Inheritance. The class from which the members are transferred is called Parent/base class and the class with which inherits the members of the Parent class is called Derived / child class.
3.	Palymanpishm:- It means that you can have multiple classes that can be used interchangeably, even though each class implement the same properties or methods in different ways.
4.	Abstraction: It refers to, providing only essential information to the outsides would and hicking their background details. Ex:- A web server hides how it processes data it succeives the end wen just hits the endpoints and get the data back.

	Object Oriented Programming Features:
	ODP allows decomposition at a problem into a number of entitles called objects and then builde data and function around these objects.
4.	The software is divided into a number of small units called objects. The data and functions are built around these objects.
2.	The date at the objects can be accessed only by the functions associated with that objects
3.	The function of one object can access the function of another objects.
•	
	In OOP language it is mandatory to create a class for represen
	A class will not occupy any memory space and hence it is only a
1 (185.44)	logical representation of data.