

ANGEL'S PUBLIC SCHOOL SAMPLE PAPER

PRE - BOARD - I SESSION 2025 - 26

TIME: 3 HRS CLASS - XII SUBJECT: INFORMATION TECHNOLOGY M.M:60

General Instructions:

- 1. Please read the instructions carefully.
- 2. This Question Paper consists of **24 questions** in two sections Section A & Section B.
- Section A has Objective type questions whereas Section B contains Subjective type questions.
- Out of the given (6 + 18 =) 24 questions, a candidate has to answer (6 + 11 =) 17
 questions in the allotted (maximum) time of 3 hours.
- 5. All guestions of a particular section must be attempted in the correct order.
- 6. SECTION A OBJECTIVE TYPE QUESTIONS (30 MARKS):
 - i. This section has 06 questions.
 - ii. There is no negative marking.
 - iii. Do as per the instructions given.
 - Marks allotted are mentioned against each question/part.

7. SECTION B - SUBJECTIVE TYPE QUESTIONS (30 MARKS):

- i. This section contains 18 questions.
- ii. A candidate has to do 11 questions.
- iii. Do as per the instructions given.
- **iv.** Marks allotted are mentioned against each question/part.

SECTION A: OBJECTIVE TYPE QUESTIONS

Q. 1	Answer any 4 out of the given 6 questions on Employability Skills (1 \times 4 = 4 marks)	
i.	Ais the type of sentence which expresses strong feelingsand	1
	emotions.	
	a) Declarative sentences	
	b) Interrogative sentencesc) Imperative sentences	
	d) Exclamatory sentences	
ii.	Which of the following is true for Extrinsic motivation?	1
" .	a) It leads to frustration when lacking.	1
	b) It leads to better decision making.	
	c) It focuses on the outcome or reward associated with the activity.	
	d) It stems from internal satisfaction or enjoyment of an activity.	
		1
iii.	Ravi often feels superior to others, exaggerates his achievements, and constantly seeks admiration. He gets upset when people do not give him special treatment and tends to	1
	disregard others' feelings.	
	disregard others rectings.	
	Which of the following personality disorders best describes Ravi's condition?	
	a) Narcissistic personality disorder	
	b) Borderline personality disorder	
	c) Dependent personality disorder	
	d) None of the above	
iv.	rearranges the data in ascending or descending order.	1
	a) Filtering b) Sorting	
	c) Protecting	
	d) Formatting	
v.	What Should be a typical approach of an entrepreneur doing a business to solve a	1
٧.	problem?	1
	a) Ignoring the problem altogether.	
	b) Coming up with an innovative Solution.	
	c) Accepting problem as unsolvable.	
	d) Waiting for someone else to solve it.	
vi	Arti replaced her old smartphone with a new one. What should she do with the old	
VI	phone?	
	f .	
	a) Throw it away in the dustbin	
	b) Sell it for recycling or exchange	
	c) Burn it to get rid of it	
	d) Keep it unused in a drawer	
	2 Answer any 5 out of the given 7 questions (1 x 5 = 5 marks)	1
i.	Rohit wrote int $x = 5$; $x += 3$; in his Java program. What is the new value of x ?	1
ii.	Name any two primitive data types supported by Java?	1

	7771 4 1	41 *						
iii.	What doe	-			FDOM	1 CDOI	ID DX 1tt	1
				UNI(*) FROM ei	npioyees GRO	UP BY department;	
	a) List of		-	1- 1				
					epartment			
	c) Total 1							
	d) Name:				1	.1 3777	1 0	- 1
iv.			t ensures	that a c	olumn can	not have NULL	values?	1
	a) UNIQ							
	b) PRIM		ΕY					
	c) NOT I							
	d) FORE	IGN KI	EY					
v.	Which of the following is not mentioned as an alternative payment method for online							
'.	shopping		10 11 III S 1.	. 1100 1110	muonea as	an ancomative p	Jayment memod for onime	1
	a) Net Ba							
	b) Cash of	_	7 013 7					
	c) Wire							
	d) Chequ							
vi.				which	feature is	similar to a phy	rical shopping backet used in	1
VI.	In an online shopping site, which feature is similar to a physical shopping basket used in a store?							1
	a) User A	ccount						
	b) Login	_						
	c) Shopp	_						
	d) Regist			l to hom	lla avraanti	ana in Tarra?		1
vii.	1	-	are used	i to nano	ne excepn	ons in Java?		1
	a) throw, b) try, cat							
	c) excepti		h					
	d) final, ca		11					
Q. 3	-		ut of the	given 7	anestions	$s (1 \times 6 = 6 \text{ mar})$	·ks)	
i.	What do				questions	(110 011111	113)	1
1.	W Hat do	cs IVIC i	stand 101	•				1
ii.	String m	yString	= "Hello	World"	· ,			1
	System.o	ut.print	ln(myStr	ing.cha	:At(6));			
	What wil	_		C	· ///			
	a) W		o arp arr					
	b) o							
	c) r							
	d) 1							
iii.	EmpID	Name	Dent	Salary	City	JoinDate		1
	<u> </u>					2019-04-12		
	101	Mehul	=	50000				
	102	Smiha	IT	75000	Mumbai	2020-01-23		
	103	Arsh	Finance	62000	Chennai	2021-05-30		
	104	Neeru	IT	78000	Delhi	2018-11-15		
	105	Amit				2022-07-10		
	103	типі	ш	52000	Dangalore	2022-07-10		
	Consider	the tak	le EMDI	OVEE				
	Consider the table: EMPLOYEE Write Query to display name and salary of employees							
	1	•			ana salary	or employees		
1	working	ın the l'	Γ departn	nent.				

iv.	How can us	ers improve th	ne safe	ety of their passwords when making online payments?	1
1,,		rsonal info lik			•
	1			ers, and symbols	
	, .	he password o		(0) (1) **********************************	
	d) Sharing t	he password v	with fri	iends	
V.	Consider the	e following T	ables:		1
	Department	t Table			
	DeptID	DeptNam	e		
	<u> </u>	Computer Sc			
		Mathematics			
	3	Punjabi			
	Student Tal				
	StudentID	1	Dept	m	
	101	Alisha	1		
	102	Bhavya	2		
	103	Gauri	3		
	103	Gauri	112		
	Identify Prin	mary key and	Foreig	gn Key in Student Table	
vi.	Which prici	ng benefits do	consu	umers enjoy through online reservations?	1
	,	-	re price	es easily online	
	b) Prices are	e hidden e always the sa	ame		
		e determined b		agent only	
	7771.:-1 C41.	- C-11	4	1	1
vii.	Which of the following is true about the switch statement in Java? a) The switch statement can only work with integers.				
	,			reak statement, otherwise execution may fall through.	
	,			y in every switch statement.	
	,		-	e used with characters	
Q. 4				6 questions (1 x 5 = 5 marks)	
				ine late at night and received confirmation immediately	1
i.		_		ich benefit of online reservation does this highlight?	
	,	access to servi	ces		
	,	oooking only ence and 24/7	availal	hility	
	1 '	confirmation	a v antal	omi	
ii.		onstructor in J	ava?		1
		that perform		tion	1
	1 -	_		d to initialize objects	
	1 '	d used to destr		jects	
		d to print valu		voot vyov to doologo o String vonichle in Iovo	1
iii.	I	e following is me = "John";	a corr	rect way to declare a String variable in Java?	1
		me = "John";			
	c) Str name	= "John";			
	d) String na	me == "John"	,		

iv.	State TRUE or FALSE Online shopping provides a limited variety of products compared to traditional stores.	1
	The AVG() function works only with:	1
	a) Numeric values	
	b) Text values	
	c) Date values	
	d) Boolean values	
vi.	What is meta-data?	1
	a) Data about data	
	b) Data that stores images	
	c) Data that cannot be modified	
	d) Data that is deleted after use	
Q. 5	Answer any 5 out of the given 6 questions (1 \times 5 = 5 marks)	
i.	Which of the following activities is part of the Requirement Definition Phase in web	1
	application development?	
	a) Writing the program code for the application	
	b) Testing the application for errors	
	c) Checking technical and economic feasibility of the project	
	d) Deploying the application on a server	
	In a database table, what is the term used for the number of columns?	
	a) Cardinality	1
	b) Degree	-
	c) Domain	
	d) Key	
iii.	Which command is used to display all the databases in MySQL?	1
iv.	Differentiate between System.out.print() and System.out.println() in Java.	1
V.	Which of the following is the correct syntax to define a user-defined method in Java?	1
	a) void methodName() { /* code */ }	
	b) methodName void() { /* code */ }	
	c) function methodName() { /* code */ }	
	d) define methodName() { /* code */ }	
vi.	The bytecode runs on the	1
	The bytecode runs on the	1
Q. 6	The bytecode runs on the Answer any 5 out of the given 6 questions (1 x 5 = 5 marks)	
Q. 6 i.	The bytecode runs on the Answer any 5 out of the given 6 questions (1 x 5 = 5 marks) Which of the following is an invalid variable name in Java?	1
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Q. 6 i. ii.	The bytecode runs on the Answer any 5 out of the given 6 questions (1 x 5 = 5 marks) Which of the following is an invalid variable name in Java? a)_temp b)total#value c)\$price d)userName What is the output of the expression 10 % 3? What is the main purpose of Project Management?	1
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a) WHERE	
b) ORDER BY	
c) HAVING	
d) DISTINCT	
v. Which SQL command is used to remove a table from the database?	1
a) DELETE	
b) REMOVE	
c) DROP	
d) TRUNCATE	
vi. In the field of telecommunications, databases are mainly used for:	1
a) Storing songs, movies, and entertainment content	
b) Storing information about customers, call records, bills, and subscription plans	
c) Storing only hardware device specifications	
d) Storing temporary files of internet browsing	

SECTION B: SUBJECTIVE TYPE QUESTIONS

Answer any 3 out of the given 5 questions on Employability Skills ($2 \times 3 = 6$ marks) Answer each question in 20 - 30 words.

1		
Q. 7	State the importance of active listening in communication.	2
Q. 8	Anita was overwhelmed with her workload and was often distracted by her phone and social media. One day, she decided to switch off her phone while studying and set specific goals for each study session. How does this reflect self-management?	2
Q. 9	Rohit noticed that plastic waste was a major issue in his school. He initiated a campaign encouraging students to carry reusable water bottles and lunch boxes. Which green skill is Rohit promoting through his initiative?	2
Q. 10	List any two advantages of using Presentation Software.	2
Q. 11	Anu observed that people in her town had to travel far to buy organic vegetables. She partnered with local farmers and started a weekly organic vegetable delivery service.	2
	State the entrepreneurial functions performed by Anu in the above case.	

Answer any 3 out of the given 5 questions $(2 \times 3 = 6 \text{ marks})$

Q.12	Give the output of the following code segment-	2
	int n = 3;	
	for (inti = n; $i \ge 1$; i)	
	{	
	System.out.print(i * i + " ");	
	}	
Q.13	Explain candidate key with suitable example.	2
Q.14	Explain Program-Data Independence in context of a DBMS?	2
Q.15	List any four entities involved in creating a Shopping Website	2
Q.16	What are comments in Java programs and why are they important?	2
2.20	In the state of the stat	-

Answer any 2 out of the given 3 questions $(3 \times 2 = 6 \text{ marks})$

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Q.17
        Nitya is creating a Java program to calculate the area of a rectangle.
                                                                                              3
        She writes the following code:
         class Rectangle {
             int length;
             int width;
             int calculateArea() {
                  return length * width;
             }
             public static void main(String[] args) {
                  Rectangle r1 = new Rectangle();
                  r1.length = 5;
                  r1.width = 10;
                  System.out.println("Area: " + r1.calculateArea());
             }
         }
        a) What does the method calculateArea() do in this program?
        b) How is the object of the class created?
        c) What will be the output of the program?
        If a category has many products, how should they be displayed to customers?
Q.18
                                                                                              3
        List any three Advantages of using DBMS approach.
Q.19
                                                                                              3
```

Answer any 3 out of the given 5 questions $(4 \times 3 = 12 \text{ marks})$

Q.20	Write a Java code using String methods to perform the following tasks:	4
	String str = "java programming";	
	i. Convert all characters to lowercase.	
	ii. Find the total number of characters in the string.	
	iii. Append the word "rocks" at the end of the string.	
	iv. Replace the word "java" with "Python".	
Q.21	List and briefly explain the four main phases in the development of a web-based	2+1+
	application project.	1
Q.22	What are multithreaded programs in Java? What are the two ways by which these	2+2
	threads can be created?	
Q.23	a) Define arrays.	+
Q.20	b) Write a program to:	1+2+
	i) Create a string array Names containing five names.	1 '2'
	ii) Display each name using a while loop.	1
	c) What happens if a program tries to access an array element using an index that is	

	outside th	e valid range?					
Q.24	Consider	the following table	es –				4
	Table: MO	OVIE					
	MID	MName	Genre	;	Budget		
	M01	Avatar	Sci-F	i	500000		
	M02	Dangal	Sport	S	150000		
	M03	Inception	Thrill	er	300000		
	Table: AC	MID		Actor	Name		
	A101	M01		Sam V	Vorthington		
	A102		Aamir Khan				
	A103			Leona	onardo		
				DiCap	prio		
	Write SQL queries for the following:						
	a) Find the total number of actors in each movie.						
	b) Add a new record to MOVIE: (M04, '3 Idiots', 'Comedy', 200000).						
	c) Display MName, ActorName, and Genre of all actors. d) Show details of movies whose budget is more than 200000.						
	d) Show d	letails of movies w	vhose b	udget is	s more than 200	0000.	