## **CBSE CLASS XII IP 2017 QUESTION PAPER WITH MARKING SCHEME**

General Instructions:

- Marking scheme is the final document for all references with regard to evaluation and cannot be altered under any circumstances.
- The answers given in the marking scheme are SUGGESTIVE, Examiners are requested to award marks for all alternative correct Solutions/Answers conveying the similar meaning.
- All programming questions have to be answered with respect to Java Language only.
- In Java, ignore case sensitivity for identifiers (Variable / Functions ).
- In SQL related questions both ways of text/character entries should be acceptable for Example: "AMAR" and 'amar' both are correct.
- In SQL related questions semicolon should be ignored for terminating the SQL statements.
- In SQL related questions, ignore case sensitivity.
- In SQL related questions, ignore column headers in outputs.

1	(a)	Identify odd one out of the following:	
		Optical Fiber/Coaxial Cable/ Bluetooth/Twisted Pair Cable.	
		Give reason for your answer.	
		Odd one : Bluetooth	
		Reason : Bluetooth is a wireless/unguided communication media while others are wired/guided communication media.	5
		(1 mark for each part)	
	(b)	How is it easier to diagnose fault in Star topology than in Bus topology?	
,		In Star topology each node is directly connected to a central hub / switch, hence fault diagnosis becomes easy.	
		In bus topology all the nodes are connected to the backbone cable. The signal travels through the entire length of the backbone and is received by the node for which it is intended. Hence, fault diagnosis is difficult.	
		(2 marks for correct answer) NOTE : ½ mark each for both topologies if are explained using either diagrams / text.	
	(c)	What is the purpose of logical address of computer?	Ī
		NOTE : Full 2 marks to be given if any part of question no. 1 is attempted correctly.	'
	(d)	Does Open source software only mean that the software is free of cost? Give reason for your answer.	ý
	Ans	No , it does not only mean that the software is free of cost.	l
		Reason: It also means that the source code is available to user with freedom to use , modify and distribute.	
T		(1 mark for each part)	T
	(م)	Which of the following are valid IP addresses? Give reason(s) if invalid.	t

	T		
		i) 121.23.1.45	
		ii)192.168.0. 254	
		iii)192.168.0.1	
		iv)1981.1.1	
	Ans	Valid IP addresses: (i) , (ii) , (iii)	
		Invalid IP address: (iv) 1981.1.1 because an IP address is a group of four	
		bytes; each of which can be a number from 0 to 255.	
		(1 mark for stating all the three valid IP addresses	
		OR	
		1/2 mark for stating any two valid IP addresses)	
		( $\frac{1}{2}$ mark for mentioning invalid address , $\frac{1}{2}$ mark for the reason)	
2	(a)	Write the value that willbe assigned to variable x after executing thefollowing statement:	1
		$\mathbf{x} = 20 -5 + 3 * 20/5;$	
	Ans	27	
		(1 Mark for correct answer)	
	(b)	Consider the statement:	1
		<b>choice</b> = $Y'$ ; What is the datatype of variable choice? Write Java statement to declare the variable 'choice'.	
	Ans	The data type of the variable choice is <b>char</b> .	
		Declaration : char choice;	
		(½ mark for stating datatype as char)	
		(½ mark for declaration)	
		NOTE: char choice = $Y'$ ; to be accepted as correct answer and 1 Mark to be allotted.	
	(c)	While working in Netbeans IDE, Amit wants that the text in a Text area should move to the next line without breaking the word. Which properties would help him do that?	1
	Ans	wrapStyleWord property, lineWrap property	
		( 1 mark for correct answer) NOTE: Full 1 mark to be allotted if any one of the above properties is mentioned	
	(d)	Write Java statement to: Append a string "ABC" to the text that is already in the text area named jTextArea1.	1
	Ans	<pre>jTextArea1.append("" +"ABC");</pre>	
		OR	
		<pre>jTextArea1.append("ABC");</pre>	
	1	OR	

		T
	<pre>jTextArea1.append("ABC"+" "); (1 mark for connect onewer)</pre>	
	(1 mark for correct answer)	
	NOTE : ( <sup>1</sup> / <sub>2</sub> mark to be allotted if setText is mentioned instead of append)	
(e)	Write the output of the following HTML code.	
	<ol start="4"></ol>	
	<li>Bake the mixture in oven for an hour</li>	
	<li>Remove from oven</li>	
	<li>Allow the mixture to stand for ten minutes</li>	
	<li>Serve</li>	
Anc	4 Bake the mixture in the oven for an hour	
AIIS	5 Remove from oven	
	6 Allow the mixture to stand for ten minutes	
	7 Serve	
+	(½ mark for each line of output)	
	NOTE: Full 2 marks to be allotted if :	
	mentioned as an error	
	OR	
	'Error' as <1i>is an empty tag is mentioned	
	OR	
	'No output' / 'Error' is mentioned	
(f)	Given below is a code.	
	<message></message>	
	<text>Hello, world!</text>	
	Which language is used to write the above code?	
<u> </u>	What are <message>, </message> , <text> and </text> ?	
Ans	Language used is XML	
	<pre><message>, </message>,<text> and </text> are user defined tags OR tags OR container tags OR <message>, </message> is the root element and <text>, </text> is the child element.</pre>	
_	(1 mark for each part)	+
(g)	Rewrite the following code using if else if statement instead of switch :	
	switch (success) {	
	case -1: $x1 =$ "No result" ;	
	break;	
	<pre>case 0: x1 = "Final result- Not successful";     break;</pre>	
	default: x1 = "result NOT	
	known"; break;	
	}	
	3/15	

	Ans	<pre>if (success == -1)     x1= "No result"; else if (success == 0)     x1= "Final result -Not successful";</pre>	
		else x1= "result NOT known";	
		(2 marks for correct if-else-ifconstruct and conditions)	
		OR	
		(1 mark for correct use of if-else-ifconstruct) (1 mark for correct conditions)	
3	(a)	How is a database related to a table ?	1
	Ans	Database contains related tables. OR	
		Database contains tables.	
		( 1 mark for any correct answer )	
	(b)	Ariya wants to add another column 'Gender' in the already existing table 'CUSTOMERS'. She has written the following statement. However , it has errors . Rewrite the correct statement.	1
		[MODIFY TABLE CUSTOMERS GENDER char(1);	
	Ans	ALTER TABLE CUSTOMERS ADD GENDER CHAR(1); OR	
		ALTER TABLE CUSTOMERS ADD GENDER CHAR;	
		OR	
		ALTER TABLE CUSTOMERS	
		ADD COLUMN GENDER CHAR; OR	
		ALTER TABLE CUSTOMERS	
		ADD COLUMN GENDER CHAR(1);	
		( <sup>1</sup> / <sub>2</sub> mark for Alter TABLE) ( <sup>1</sup> / <sub>2</sub> mark for Addclause)	
		NOTE:varchar(1) in place of Charshould be accepted	
	(c)	In a hospital, the patients are allocated to wards. A database named 'Hospital' is created. One table in this database is: WARD with WardId,	2
		WardName, NumOfBedsas columns and WardIdas the primary key. Write another suitable table you could expect to see in the 'Hospital' database, with 3 suitable columns identifying Primary key and Foreign key in the table that you expect.	
	Ans	Example: Table - Patient Columns - PatientId, PatientName, WardId Patient Id - Primary Key WardId - Foreign Key	

	OR							
	Any other suitable table mentioning its primary key and foreign key.							
	(1 mark for writing any three suitable column names							
	OR ½ mark for writing any two suitable column names) (½ mark for mentioning the Primary Key)							
		-	/					
	( ½ mark for men NOTE : Tabular re	-	also to be accepted					
(d)		-	with the help of exam	•				
	"In a transaction ei back."	ther all the SC	)L statements be com	nitted or all rolled				
Ans	Any MySQL example accepted OR defini	-		COCOMMIT to be				
	(2 marks for the co NOTE : Full 2 mark		r) n if 3(e) or 3(f) is atte	empted.				
(e)	Given below is the	'Department'	table:					
	]	DEPCODE	DEPNAME					
		101	ADMIN					
	102 RECEPTION							
		103	PERSONNEL					
		ENT SET DE PARTMENT V	EPNAME = 'OFFICE ALUES(104,'HRD');					
	UPDATE DEPARTM `ADMIN'; INSERT INTO DE UPDATE DEPARTM DEPNAME = `REC COMMIT; DELETE FROM DE	ENT SET DE PARTMENT VA MENT SET EPTION';		IT OFFICE' WHERE				
	UPDATE DEPARTM `ADMIN'; INSERT INTO DE UPDATE DEPARTM DEPNAME = `REC COMMIT; DELETE FROM DE ROLLBACK; SELECT * FROM 1	ENT SET DE PARTMENT VA MENT SET EPTION'; PARTMENT WE DEPARTMENT;	ALUES(104,'HRD'); DEPNAME = `FRON HERE DEPNAME = `F	T OFFICE' WHERE				
Ans	UPDATE DEPARTM `ADMIN'; INSERT INTO DE UPDATE DEPARTM DEPNAME = `REC COMMIT; DELETE FROM DE ROLLBACK; SELECT * FROM 1	ENT SET DE PARTMENT VA MENT SET EPTION'; PARTMENT WE DEPARTMENT;	ALUES(104,'HRD'); DEPNAME = `FRON HERE DEPNAME = `F	T OFFICE' WHERE				
Ans	UPDATE DEPARTM `ADMIN'; INSERT INTO DE UPDATE DEPARTM DEPNAME = `REC COMMIT; DELETE FROM DE ROLLBACK; SELECT * FROM 1	ENT SET DE PARTMENT VA MENT SET EPTION'; PARTMENT WE DEPARTMENT; utput of the a	ALUES (104, 'HRD'); DEPNAME = 'FRON HERE DEPNAME = 'F	T OFFICE' WHERE				
Ans	UPDATE DEPARTM `ADMIN'; INSERT INTO DE UPDATE DEPARTM DEPNAME = `REC COMMIT; DELETE FROM DE ROLLBACK; SELECT * FROM 1	ENT SET DE PARTMENT VA MENT SET EPTION'; PARTMENT WE DEPARTMENT; utput of the al	ALUES (104, 'HRD'); DEPNAME = `FRON HERE DEPNAME = `F bove given SELECT sta	T OFFICE' WHERE				
Ans	UPDATE DEPARTM `ADMIN'; INSERT INTO DE UPDATE DEPARTM DEPNAME = `REC COMMIT; DELETE FROM DE ROLLBACK; SELECT * FROM 1	ENT SET DE PARTMENT VA MENT SET EPTION'; PARTMENT WE DEPARTMENT; utput of the a	ALUES (104, 'HRD'); DEPNAME = 'FRON HERE DEPNAME = 'F	T OFFICE' WHERE				
Ans	UPDATE DEPARTM `ADMIN'; INSERT INTO DE UPDATE DEPARTM DEPNAME = `REC COMMIT; DELETE FROM DE ROLLBACK; SELECT * FROM 1	ENT SET DE PARTMENT VA MENT SET EPTION'; PARTMENT WA DEPARTMENT; utput of the al DEPCODE 101	ALUES (104, 'HRD') ; DEPNAME = `FRON HERE DEPNAME = `F bove given SELECT sta DEPNAME OFFICE	T OFFICE' WHERE				
Ans	UPDATE DEPARTM `ADMIN'; INSERT INTO DE UPDATE DEPARTM DEPNAME = `REC COMMIT; DELETE FROM DE ROLLBACK; SELECT * FROM 1	ENT SET DE PARTMENT VA MENT SET EPTION'; PARTMENT WE DEPARTMENT; utput of the al DEPCODE 101 102	ALUES (104, 'HRD') ; DEPNAME = `FRON HERE DEPNAME = `F bove given SELECT sta DEPNAME OFFICE FRONT OFFICE	T OFFICE' WHERE				
Ans	UPDATE DEPARTM `ADMIN'; INSERT INTO DE UPDATE DEPARTM DEPNAME = `REC COMMIT; DELETE FROM DE ROLLBACK; SELECT * FROM 1	ENT SET DE PARTMENT VA MENT SET EPTION'; PARTMENT WE DEPARTMENT; utput of the al DEPCODE 101 102 103 104	ALUES (104, 'HRD') ; DEPNAME = `FRON HERE DEPNAME = `F bove given SELECT sta DEPNAME OFFICE FRONT OFFICE PERSONNEL HRD	T OFFICE' WHERE				
Ans (f)	UPDATE DEPARTM `ADMIN'; INSERT INTO DE UPDATE DEPARTM DEPNAME = `REC COMMIT; DELETE FROM DE ROLLBACK; SELECT * FROM T What will be the of	ENT SET DE PARTMENT VA MENT SET EPTION'; PARTMENT WE DEPARTMENT; utput of the al DEPCODE 101 102 103 104 line of output	ALUES (104, 'HRD'); DEPNAME = 'FRON HERE DEPNAME = 'F bove given SELECT sta DEPNAME OFFICE FRONT OFFICE PERSONNEL HRD	T OFFICE' WHERE				
	UPDATE DEPARTM `ADMIN'; INSERT INTO DE UPDATE DEPARTM DEPNAME = `REC COMMIT; DELETE FROM DE ROLLBACK; SELECT * FROM T What will be the of What will be the of (1/2 mark for each of How is HAVING clause	ENT SET DE PARTMENT VA MENT SET EPTION'; PARTMENT WE DEPARTMENT; utput of the al DEPCODE 101 102 103 104 line of output similar	ALUES (104, 'HRD'); DEPNAME = 'FRON HERE DEPNAME = 'F bove given SELECT sta DEPNAME OFFICE FRONT OFFICE PERSONNEL HRD	IT OFFICE' WHERE TRONT OFFICE'; tement?				
(f)	UPDATE DEPARTM `ADMIN'; INSERT INTO DE UPDATE DEPARTM DEPNAME = `REC COMMIT; DELETE FROM DE ROLLBACK; SELECT * FROM : What will be the of What will be the of (1/2 mark for each is How is HAVING clause different from WHE	ENT SET DE PARTMENT VA MENT SET EPTION'; PARTMENT WE DEPARTMENT WE DEPARTMENT; utput of the al 101 102 103 104 line of output similar REClause? Exp	ALUES (104, 'HRD'); DEPNAME = 'FROM HERE DEPNAME = 'F bove given SELECT sta DEPNAME OFFICE FRONT OFFICE PERSONNEL HRD to WHERE C	IT OFFICE' WHERE TRONT OFFICE'; tement?				

		used for conditions with group of values.	
		e.g.	
		WHEREClause:	
		SELECT * FROM EMP WHERE DEPT = "PHYSICS ";	
		HAVINGCLAUSE :	
		SELECT SUM(SALARY), DEPT FROM EMP	
		GROUP BY DEPT HAVING COUNT $(*) > 3;$	
		OR	
		Any other valid example	
		(½ mark for Similarity)	
		(½ mark for Difference)	
		( <sup>1</sup> / <sub>2</sub> mark for any correct example of <code>WHEREclause</code> )	
		(½ mark for any correct example of HAVINGclause)	
		NOTE: 1 mark each for Similarity and Difference to be allotted if	
		explained with the help of valid example.	
4	(a)	Write the values of r and s after execution of following code:	1
		int p = 11;	
		int q = 21;	
		int r;	
		int s;	
		r = ++q;	
		s = p++;	
		r++;	
	Ans	r = 23	
		s = 11	
		(½ mark for each correct answer)	
	(b)	What will be displayed in jTextField1 and jTextField2 after the following	2
		code is executed:	
		<pre>int ndigits = 0;</pre>	
		int $N = 35;$	
		while $(N > 12)$ {	
		<pre>ndigits = ndigits + 1;</pre>	
		N = N-10;	
		}	
		<pre>jTextField1.setText(" "+ndigits);</pre>	
		<pre>jTextField2.setText(" "+N);</pre>	
	Ans	jTextField1will display 3	
		jTextField2will display 5	
		(1 mark for each correct answer)	
	(c)	Write the value of C after executing the following code:	2
		int P;	
		int R = 8;	

```
int oddNum;
    int C = 0;
    for (P = 1; P < R; P=P+3)
     {
          oddNum = P \&2;
          if (oddNum == 1)
          {
                C = C + 1;
          }
     }
Ans 2
    (2 marks for correct value of C)
    Write the value that will be stored in variable t after the execution of the 2
(d)
    following code . How many times will the loop execute ?
    int sum = 0;
     int score =
    0; double t;
    do
    {
       score = score +1;
       sum = sum + score;
    3
    while (score <=3);</pre>
     t = sum / 3;
Ans Value of t will be 3.0
    Loop executes 4 times
    NOTE: 3 and 3.3 for value of t should also be accepted
    (1 mark for correct value of 't')
    (1 mark for correct number of iterations)
(e) The following code has error(s). Rewrite the correct code underlining all the 2
     corrections made
     : int j;
     int i = 15;
     int flag = 1;
     while( j = 2 j < i; j++)</pre>
     {
       if(i % j = 0)
       {
         flag ==
         0; break;
       }
     }
Ans Corrected code :
    int j;
```

	int i = 15;	٦
	int flag = 1;	
	<u>for(j = 2;</u> j < i ; j++) {	
	i  if  (i \$ j = = 0)	
	$\begin{cases} \\ flag = 0; \end{cases}$	
	break ;	
	}	
	}	
	OR	
	int j;	
	<pre>int i = 15; int flag = 1;</pre>	
	j=2;	
	while $(j \leq i)$	
	{ if (i%j == 0)	
	{	
	$\frac{flag = 0}{break};$	
	}	
	<u>j++;</u> }	
	, (½ mark each for correcting any four errors)	
	OR	
	(1 mark for only identifying any four errors - without making any	
 	corrections)	-
(f)	Ms. Fauzia works as a programmer in "TelTel Mobile Company" where she	
(.)	has designed a software to compute charges to be paid by the mobile phone	
	user. A screenshot of the same is shown below:	
		1
	TelTel Mobile Company	
	Name	
	Mobile Phone Number	
	Mobile Phone Number	
	Number of Calls Made	
	Number of SMSs Sent	
	Mobile Data Plan	
	Calculate Charges Clear Exit	
	Calls and SMS Charges:	
	Mobile Data Plan Charges:	
	Amount to Pay: 8/15	
	Amount to Pay: 8/15	

	Each Call is charged at Rs.1.00 .
	Each SMS is charged at Rs. 0.50.
	Users can also opt for Mobile Data Plan. Charges for Mobile Data Plan are fla
	Rs.50.00.
	Help Ms. Fauzia in writing the code to do the following:
(i)	When the 'Calculate Charges' button is clicked, 'Calls and SMS Charges
	'Mobile Data Plan Charges' and 'Amount to Pay' should be calculated and
	displayed in the respective text fields.
	'Amount to Pay' is calculated as:
<b>A</b>	Calls and SMS Charges + Mobile Data Plan Charges(if any)
ANS	<pre>int Calls, Sms; double Total,dataAmt = 0, grandTot, callsChg ,smsChg;</pre>
	<pre>Calls = Integer.parseInt(jTextField3.getText()); Sms = Integer.parseInt(jTextField4.getText());</pre>
	callsChg = Calls * 1.00 ;
	smsChq = Sms * 0.5;
	Total = callsChg + smsChg;//Total=(Calls*1.00)+(Sms*0.5);
	if (jCheckBox1.isSelected())
	dataAmt = 50.00;
	grandTot = Total + dataAmt;
	jTextField5.setText(""+ Total);
	jTextField6.setText(""+dataAmt);
	<pre>jTextField7.setText(""+grandTot);   (1 mark for calculating 'Amount to Pay')</pre>
	(1 mark for correct use of if statement)
	(1 mark for calculating and displaying 'Grand Total')
	(½ mark for displaying 'Calls and SMS Charges')
	(½ mark for displaying 'Mobile Plan charges')
(ii)	When 'Clear' button is clicked, all the textfields and checkbox should be 1
(,	cleared.
	jTextField1.setText("");
	jTextField2.setText("");
	jTextField3.setText("");
	jTextField4.setText("");
	jTextField5.setText("");
	jTextField6.setText("");
	jTextField7.setText("");
	<pre>jCheckBox1.setSelected(false);</pre>
	( <sup>1</sup> /2 mark for clearing any TextField and <sup>1</sup> /2 mark for clearing the
	CheckBox)
	NOTE : NULL in place of "" to be accepted for clearing text field.

(Sub Code:065 Paper Code 90/Outside Delhi)

<b></b>			(Sub Code:065		,		
	(iii)	When the 'Exit'	' button is click	ed, the application	should close.		1
		System.exit	(0);				
		(1 mark for co	rrect answer)				
5		Consider the T	able "Infant"	shown below.			
		Table: Infant					
		ItemCode	Item	DatePurchase	UnitPrice	Discount	
		101	Frock	2016-01-23	700	10	
		102	Cot	2015-09-23	5000	25	
		103	Soft Toy	2016-06-17	800	10	
		104	Baby Socks	2014-10-16	100	7	
		105	Baby Suit	2015-09-20	500	5	
		NOTE : Discoun		a diagonat %			
				or (i) to (viii) and ou	itput for (ix) a	and (x)	
	(i)	To display the					1
	• • •			HERE Item='Cot'	•		- '
	AIIS	OR		IERE I Cem- COC	,		
		SELECT * FRO	OM Infant W	HERE Item IN('C	Cot');		
		(½ mark for se	lect)				
		(½ mark for w	HERE)				
	(ii)	To list the nan	nes of items an	d their unit price tl	nat have unit	price less than	1
		800 and discou	int more than S	5%.			
	Ans	SELECT Item	,UnitPrice	FROM Infant			
		WHERE UnitP	rice<800 AN	D Discount>5;			
			uld be accepte	ed in place of 'AND	)'		
		( ½ mark for SE	•		,		
		( <sup>1</sup> / <sub>2</sub> mark for )					
	(iii)	· ·		nd their date of pu	rchase that w	ere purchased	1
	(,	www.m. December , 2015. St					
	Ans	SELECT Item	, DatePurcha	ase FROM Infant	:		
		WHERE DateP	urchase>'20	15-12-31';			
		OR					
		SELECT Item	, DatePurch	ase FROM Infant	:		
		WHERE DateP	urchase> 20	151231;			
		( ½ mark for SE	LECT)				
		( <sup>1</sup> / <sub>2</sub> mark for	WHERE)				
	(iv)	To display the	number of iter	ns that have more	than 10% as di	iscount	1
	Ans	SELECT COU	NT(Item) FRO	OM Infant			
		WHERE Disco	unt > 10;				
		( <sup>1</sup> / <sub>2</sub> mark for					+
L	1						

	(½ mark for where)
(v)	To display Item code and unit price in decreasing order of unit price.
Ans	SELECT ItemCODE, UnitPrice FROM Infant
	ORDER BY UnitPrice DESC;
	( <sup>1</sup> / <sub>2</sub> mark for SELECT)
	( <sup>1</sup> / <sub>2</sub> mark for Order BY)
(vi)	To increase the Unit price of each item by 10% of their unit price.
Ans	UPDATE Infant
	SET UnitPrice = 1.10 * UnitPrice;
	OR
	UPDATE Infant
	SET UnitPrice = UnitPrice + .10 * UnitPrice;
	OR
	UPDATE Infant
	SET UnitPrice = UnitPrice + 10/100 * UnitPrice;
	( <sup>1</sup> / <sub>2</sub> mark for update)
	( <sup>1</sup> / <sub>2</sub> mark for SET)
(vii)	To display the highest unit price of items.
Ans	SELECT MAX(UnitPrice)
	FROM Infant;
	( <sup>1</sup> / <sub>2</sub> mark for SELECT)
	$(\frac{1}{2} \text{ mark for MAX}())$
(viii	To display the names of items that have 'Baby' anywhere in their item name
)	
Ans	SELECT Item FROM Infant
	WHERE Item LIKE `%Baby%';
	(½ mark for SELECT)
	(½ mark for LIKEClause)
(ix)	SELECT MID(Item,1,2) FROM Infant;
Ans	MID(Item,1,2)
	Fr
	Со
	So
	Ba
	Ва
	(1 mark for correct output)
4.0	SELECT AVG(UnitPrice)FROM Infant
(x)	
(x)	WHERE DATEPURCHASE >'2015-01-01';

		OR	,		-					
		AVG (Unit)								
		1925. NOTE • OI		he accent	ed if und	a	tion is taken	into consi	deration	
	NOTE : Option 2 to be accepted if updation is taken into consideration.           (1 mark for correct output)								•	
		(1 11101 K )		ι ουτρατ)						
6	(a)	company r	requires d	ata of work	shops tha	t	mployees of o are organized ing structure:	. Write SQI		p 2
		F	ield		Туре		C	onstraint		
		W	/orkshopIc		integer		Pi	imary Key		
		T.	itle		Varchar(5	50	)			
		D	ateWorksł	nop	Date		,			
		Ν	umSpeake	ers	Integer					
	Ans	CREATE 1								
	(b)	DateWo Numspe ); (½ mark (1 mark ) (½ mark Consider t	for Column for PRIME the tables	DATE, INTEGER ATE TABLE) In Names w ARY KEY CO	ith Data onstraint v and ans Event	:) we	er the questic	ns that fol Celebrity C102 C103		2
		1	L03 E	ngagement	1	12		C102		
		1	L04 W	edding	1	15		C104		
					Table: Ce	ele	ebrity			
		Cel	ebrityID	Name			Phone	FeeCha	rged	
		C10	)1	Faiz Khan			99101956	200000		
		C102 Sar		Sanjay Ku	mar		893466448	250000		
		C10	3	Neera Kha	n Kapoor	c	981166568	300000		
		C10	4	Reena Bha	tia		65877756	100000		
	(i)		•	•			and Foreign I ers) be set as	•		

Ans	Table: Event
	PRIMARY KEY- Eventld
	Table: Celebrity
	PRIMARY KEY- CelebrityID
	Table : Event
	FOREIGN KEY- CelebrityID
	No, NumPerformers cannot be set as Primary key because
	It may not be unique in every row (when more rows are added to the table
	later)
	NOTE: Yes, should also be considered as in the given table NumPerformers contains UNIQUEand NOT NULLValues. (½ mark for PRIMARY KEY of both tables and FOREIGN KEY of Event table)
	(1/2 mark for stating Yes / No and/or with correct reason)
(ii)	How many rows will be present in the Cartesian join of the above mentioned 2 tables?
	In the table 'Event', the CelebrityID 102 is present twice in the column
	"CelebrityId". Is there any discrepancy? Give reason.
Anc	Number of rows in the Cartesian join = 16
AIIS	-
	No discrepancy. Because the same Celebrity may perform in more than one
	events.
	NOTE:
	"It is a foreign key column, hence it can store duplicate values" may also
	be accepted.
	(½ mark for stating the numbers of rows )
	(½ mark for stating no discrepancy without stating reason)
(c)	With reference to the above given tables (in Q6 b), Write commands in SQL for (i) to (iii)
(i)	To display EventId, Event name, Celebrity Id and Names of celebrities for 2 on
	those events that have more than 10 performers.
Anc	SELECT EventId, Event, Event.CelebrityId, NAME
(i)	SELECT EVENTIA, EVENT, EVENT. CETEDITLYIA, MAME
(י)	FROM Event, Celebrity
A.S.C. 8	WHERE Event.CelebrityId = Celebrity.CelebrityId
	AND NumPerformers>10;
	OR
	SELECT EventId, Event, E.CelebrityId, Name
	FROM Event E, Celebrity C
	WHERE E.CelebrityId = C.CelebrityId AND NumPerformers>10;
	( <sup>1</sup> / <sub>2</sub> mark for SELECT) ( <sup>1</sup> / <sub>2</sub> mark for FROM)

	(1/2 mark for NumPerformers>10condition)		
(ii	To display Event name, Celebrity Id and Names of celebrities who have 2		
	"Khan" anywhere in their names.		
An	SELECT Event, Event.CelebrityId, Name		
(i	) FROM Event, Celebrity		
	WHERE Event.CelebrityId = Celebrity.CelebrityId AND		
	Name LIKE `%Khan%';		
	OR		
	SELECT Event, E.CelebrityId,		
	Name FROM Event E, Celebrity C		
	WHERE E.CelebrityId = C.CelebrityId AND Name		
	LIKE `%Khan%';		
	OR		
	SELECT E.Event, E.CelebrityId,		
	C.Name FROM Event E, Celebrity C		
	WHERE E.CelebrityId = C.CelebrityId AND C.Name		
	LIKE `%Khan%' ;		
	(1/2 mark for SELECT) (1/2 mark for FROM)		
	(1/2 mark for correct use of Join)		
	(1/2 mark for Name LIKE `%Khan%' condition)		
(iii	) To display Event name, Names of celebrities and Fee charged for those 2		
+	celebrities who charge more than 200000 .		
An	SSELECT Event, Name, FeeCharged		
<b>∔(ii</b>	i)		
	FROM Event, Celebrity WHERE Event.CelebrityId = Celebrity.CelebrityId		
	AND FeeCharged > 200000;		
	OR		
	SELECT Event, Name, FeeCharged		
	FROM Event E, Celebrity C		
	WHERE E.CelebrityId = C.CelebrityId AND FeeCharged		
	> 200000;		
	OR		
	SELECT E.Event, C.Name, C.FeeCharged		
	FROM Event E, Celebrity C		
	WHERE E.CelebrityId = C.CelebrityId AND C.FeeCharged		
	> 200000;		
	(½ mark for SELECT) (½ mark for FROM)		
-	(1/2 mark for correct use of Join)		
	(1/2 mark for FeeCharged > 200000condition)		
(a	List two disadvantages of e-governance to a disabled person.		
	14/15		

	2. Perso	is usually a lack of internet/computer literacy amor nal interaction is limited in e-governance, so the hur is missing which disabled people need.	5		
	<ul> <li>(1 mark each for any two disadvantages )</li> <li>How can online retailers usually offer customers a wider range of products at prices that are lesser than those of traditional stores?</li> <li>Online retailers usually offer customers a wider range of products at prices that are lesser than those of traditional stores because they have fewer infrastructural and operational costs.</li> </ul>				
(b)					
Ans					
	(1 mark )	for stating any valid reason)			
(c)	Ms. Cathy is creating a form for Vidya University Sports Council application. Help her to choose the most appropriate controls from ListBox, ComboBox, TextField, TextArea, RadioButton, CheckBox, Label and Command Button for the following entries.				
	S.NO.	FUNCTION			
	1.	To let the user enter NAME			
	2.	To let the user enter MOBILE NUMBER			
	3.	To let the user choose one PROFESSION out of the c Teaching / Non -Teaching/Research Scholar	ategories :		
	4. To let the user select facilities out of Gym, Yoga, Table Tennis, Badminton and Aerobics. More than one facility may be chosen				
Ans	S.NO.	FUNCTION	CONTROL	Ī	
	1.	To let the user enter NAME	TextField		
	2.	To let the user enter MOBILE NUMBER	TextField		
	3.	To let the user choose one PROFESSION out of the categories : Teaching / Non -Teaching/Research Scholar	RadioButton / Combo Box		
		To let the user select facilities out of Gym, Yoga, Table Tennis, Badminton and Aerobics. More than	CheckBox / List Box		