

CBSE | DEPARTMENT OF SKILL EDUCATION

INFORMATION TECHNOLOGY (SUBJECT CODE-802)

Sample Question Paper for Class XII (Session 2020-2021)

Max. Time: 3 Hours

Max. Marks: 60

General Instructions:

1. Please read the instructions carefully.
2. This Question Paper consists of **24 questions** in two sections – Section A & Section B.
3. Section A has Objective type questions whereas Section B contains Subjective type questions.
4. **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 questions 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.
 - iv. 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 x 4 = 4 marks)	
i.	Is it important to clearly communicate instructions, ideas and concepts that can help you find success in any career? State True/ False	1
ii.	All formulae in Spreadsheet begin with _____ sign (i) & (ii) = (iii) @ (iv) #	1
iii.	_____ work in collaboration with Green Builders to lay the idea of how the building will look like after its completion. They also provide artistic beauty to buildings to make them look innovative and interesting	1
iv.	List one benefit of Team Building	1
v.	_____ is feeling extremely nervous and worried because you believe that other people do not like you or are trying to harm you. (i) Paranoid (ii) Antisocial (iii) Narcissistic (iv) Dependent	1
vi.	Personality affects all aspects of an individual's performance, enlist any two personality traits.	1

Q. 2	Answer any 5 out of the given 7 questions (1 x 5 = 5 marks)	
i	_____ command is used to modify the value of attribute of one or more tuple in a table. i. Update ii. Modify iii. Alter iv. Create	1
ii	Keyword used to display the structure of the table i. Describe ii. Show iii. Select iv. Display	1

iii	_____ method of a String Class returns true if the length of this string is 0 i. indexOf() ii. length() iii. isEmpty() iv. indexOf()	1
iii	_____ Constraint is used to restrict the values of an attribute within a range.	1
iv	What are member methods??	1
v	Give one online website of B2C (Business to Consumer) segment.	1
vi	What is the importance of password field on online reservation site?	1

Q. 3	Answer any 6 out of the given 7 questions (1 x 6 = 6 marks)	
i	Predict the Output int x=9, k=0; int y=10; y=++x; x+=y; k=x; What will be the value of k?	1
ii	_____ is an e-commerce application where the customer can purchase goods over the Internet.	1
iii	_____ Phase of Web Application deveopement problem statement for which the web application is to be developed is identified. i. Requirement ii. Design iii. Implementation iv. Test	1
iv	select distinct dept_name from department; What does the above query do? a) It gives all the tuples having dept_name b) It gives the dept_name attribute values of all tuples without repetition c) It gives all the dept_name attribute of all the tuples d) It gives all the dept_name attribute of all the tuples	1
v	Define Referential Integrity.	1
vi	Identify the type of operator used If (A >=B) (i) Arithmetic (ii) Relational (iii) Logical (iv) Assignment	1

vii	E business offers advantages and opportunities, there are also risks and barriers. These include (a) Violation of customer privacy (b) Spikes causing websites to fail at peak times (c) Internet hackers penetrating company security (d) All of the above	1
Q. 4	Answer any 5 out of the given 6 questions (1 x 5 = 5 marks)	
i	What is an Object?	1
ii	Predict the output double[]Qty = {346, 142, 103, 26.5, 387.5}; System.out.println(Qty[3]);	1
iii	Define Shopping cart	1
iv	_____ is not an aggregate function a. Sum() b. Count() c. Round() d. Avg()	
v	_____ replaces zero or more number of random character, when used with Like keyword. a. _ b. % c. \$ d. @	1
vi	_____ is a special method that every Java application must have. a. Getter b. Setter c. Main d. Default	1

Q. 5	Answer any 5 out of the given 6 questions (1 x 5 = 5 marks)	
i	_____ Phase of Web Application development problem statement for which the web application is to be developed is identified. i. Requirement ii. Design iii. Implementation iv. Test	1
ii	_____ method of a String Class Return the index of the first occurrence of given substring i. indexOf() ii. indexAt() iii. length() iv. isEmpty()	1

iii	_____command which displays list of databases available on the current server. i. Show databases ii. Show tables iii. Create tables iv. Display table	1
iv	Define Data Redundancy	1
v	_____is a collection of raw facts which have not been processed to reveal useful information.	1
vi	_____ method test whether this string end with the given suffix	1

Q. 6	Answer any 5 out of the given 6 questions (1 x 5 = 5 marks)	
i	Which SQL keyword is used to sort the result? a) ORDER BY b) SORT c) ORDER d) SORT BY	1
ii	_____ commands deletes the tuples from a Table i. Drop ii. Delete iii. Modify iv. None of the above	1
iii	Define JVM	1
iv	Which of the following is not an example of eGovernance a. To file property tax b. To apply for renewal of Passport c. To start an online coding course for 3 months d. To get Voters ID card issued	1
v	Which of the following is an invalid variable declaration? a) my_string_1 b) 1st_string c) my string 1 d) _mystring1	1
vi	Name one front end and one Back end application to create Web Applications	1

SECTION B: SUBJECTIVE TYPE QUESTIONS

Answer any 3 out of the given 5 questions on Employability Skills (2 x 3 = 6 marks)

Answer each question in 20 – 30 words.

Q. 7	Sandeep has to appear for his first job interview. Mention at least 2 points he shall keep in mind before appearing.	2
Q. 8	Self-Motivation is significant in building one's personality. Comment	2
Q. 9	What is Cell referencing in a spreadsheet?	2
Q. 10	Rohan has a successful startup company. According to him 'Decision Making is considered to one of the important entrepreneurial competency'. Do you agree with Rohan's opinion? Justify.	2
Q. 11	What is the role of Water Quality technician?	2

Answer any 3 out of the given 5 questions in 20 – 30 words each (2 x 3 = 6 marks)

Q. 12	Explain Drop table with Cascade command.	2
Q. 13	The following code has some error(s). Rewrite the correct code underlining all the corrections. Also categorize the loop as Entry / Exit Control Loop. <pre>int p p = 14; do; p = p-2; System.out.displayln(p); }while p >= 2</pre>	2
Q. 14	Differentiate between = and == operator in JAVA	2
Q. 15	Explain Work integrated learning with respect to education sector.	2
Q. 16	A company is making database of Employees having personal details and Salary details Personal details have columns Empid, Name, Address, BloodGroup. Suggest Columns for Salary Table	2

Answer any 2 out of the given 3 questions in 30– 50 words each (3 x 2 = 6 marks)

Q. 17	How eGovernance does empowers the citizens. Give 3 points.	3
Q. 18	Predict the output of the following code; Also categorize the loop as Entry / Exit Control Loop. <pre>int j=1,s=0; while (j<10) { System.out.print(j+""); s=s+j; j=j+j%3; } System.out.println(=""s);</pre>	3

Q. 19	<p>(i) Mention at least 2 work areas which uses Database Management Systems.</p> <p>(ii) Jatin has given the following query from the table Student but he is unable to execute it successfully. Write the correct query after rectifying the error</p> <p style="padding-left: 40px;">Select Name, Marks From student Table Where Name ="P%"</p>	(1+2)
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Answer any 3 out of the given 5 questions in 50– 80 words each (4 x 3 = 12 marks)

Q. 20	<div>Consider the following table and write SQL statements</div> <div>Table Menu</div> <table><tr><th>ID</th><th>Item</th><th>Description</th><th>Price</th></tr><tr><td>P001</td><td>Sambar Vada</td><td>South Indian</td><td>40</td></tr><tr><td>P002</td><td>Dal Maakhani</td><td>North Indian</td><td>150</td></tr><tr><td>P003</td><td>Noodles</td><td>Chineese</td><td>100</td></tr><tr><td>P004</td><td>Idli Sabar</td><td>South Indian</td><td>50</td></tr><tr><td>P006</td><td>Sarson Saag</td><td>North Indian</td><td>170</td></tr><tr><td>P007</td><td>Dosa</td><td>South Indian</td><td>120</td></tr><tr><td>P008</td><td>Pizza</td><td>Italian</td><td>200</td></tr></table> <div><div>i. To add a new row with the following data “P009”, “Lemon Rice”, “South Indian”, 140</div><div>ii. Display details of all Menu items in the descending order of Price</div><div>iii. Display Item and Description of those Items whose price is between 100 and 150</div><div>iv. Add a new column Rating datatype as int to the table Menu</div></div>	ID	Item	Description	Price	P001	Sambar Vada	South Indian	40	P002	Dal Maakhani	North Indian	150	P003	Noodles	Chineese	100	P004	Idli Sabar	South Indian	50	P006	Sarson Saag	North Indian	170	P007	Dosa	South Indian	120	P008	Pizza	Italian	200	4
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Q. 21	How students are benefitted from online learning? What are the various ways of online learning? Name 2 educational websites	4																																
Q. 22	Write a program in Java to display Area of a square. Differentiate between return type and method arguments with a suitable example	4																																
Q. 23	Aman wants to shop shoes online. Write detailed Steps/ procedure to be followed while shopping online.	4																																
Q. 24	<div>(i) Write a program in Java to display Area of a square.</div> <div>(ii) What are comment entries in Java? Mention two ways to give comments.</div>	2+2																																