



COMMON PRE-BOARD EXAMINATION
INFORMATION TECHNOLOGY-Code No. 802



Class-XII-(2025-26)

SET: 1

Time allowed: 3 Hrs.

Maximum 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.
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Q. No.	<u>SECTION A: OBJECTIVE TYPE QUESTION</u>	Marks
Q. 1	Answer any 4 out of the given 6 questions on Employability Skills (1 x 4 = 4 marks)	
i.	Which of these sentences is/are in passive voice? a) They are watching a movie. b) The clock was repaired by Sunil. c) He is sleeping in the room. d) My pet dog bit the postman.	1

- iv. _____ command is used to add or delete an attribute from a table. 1
- Update
 - Alter
 - Create
 - Modify
- v. IRTC online portal for booking train tickets stands for: 1
- Indian Railway Controlling and Transport Corporation
 - International Railway Catering and Tourism Corporation
 - Indian Railway Catering and Tourism Corporation
 - International Railway Controlling and Transport Corporation
- vi. A web application is a program that is stored on a _____ server. 1
- Remote
 - Voice
 - Local
 - Data
- vii. All Java statements must end with a/an _____. 1
- colon (:)
 - comma (,)
 - semicolon(;
 - period(.

Q. 3 Answer any 6 out of the given 7 questions (1 x 6 = 6 marks)

- i. What does NeGP stand for? 1
- ii. `String myString = "Community Festival";`
`System.out.println(myString.indexOf("F"));`
 What will be the output? 1
- 9
 - 10
 - 11
 - 12
- iii. Consider the table **COACH:** 1

CID	CNAME	CITY	SALARY
101	Sunaina	Mumbai	90000
102	Anamika	Delhi	80000
103	Deepti	Indore	82000
104	Meena	Delhi	78000
105	Richard	Mumbai	95000
106	Merlin	Chennai	69000

Write the MySQL query to display the name and salary of the coach(s) from Delhi.

- iv. This website includes sites of different states and union territories of India, sites of government departments like judiciary and legislature. Which is this website? 1
a) goirectory.nic.in
b) godirectory.nic.in
c) indiagov.in
d) india.gov.in
- v. Write any two DDL commands used in MySQL. 1
- vi. Which of the following is a disadvantage of web based applications? 1
a) They are slow as compared to software based applications.
b) They do not need be installed.
c) They are available 24X7.
d) They offer cross platform compatibility.
- vii. Which of the following is true for a do-while loop in Java? 1
a) The loop executes only if the condition is true.
b) The condition is checked before the loop body executes.
c) The loop may never execute if the condition is false.
d) The loop body executes at least once before the condition is checked.

Q. 4 Answer any 5 out of the given 6 questions (1 x 5 = 5 marks)

- i. This website provide high quality online courses for free, in collaboration with various universities across the globe. Which is this website? 1
a) coursera.org
b) khan academy
c) w3schools.org
d) cbse.nic.in
- ii. What is the need of JVM? 1
a) It writes Java programs automatically.
b) It converts Java bytecode into machine code for execution.
c) It stores Java source code permanently.
d) It designs graphical user interfaces in Java.
- iii. Which of the following is used to compare two String values in Java for equality? 1
a) equals()
b) =
c) concat()
d) charAt()
- iv. Which of the following constraints specifies that the value of every attribute in each tuple must be from the domain of that attribute? 1
a) Key Constraint
b) Domain Constraint
c) Null Value Constraint
d) Entity Integrity Constraint

- v. State TRUE or FALSE: 1
In the requirement definition phase we identify the problem statement for which the web application is to be developed.
- vi. What do you mean by degree of a relation? 1
a) A column in a relation.
b) Total number of rows in a relation.
c) Total number of columns in a relation.
d) A row in a relation.

Q.5 **Answer any 5 out of the given 6 questions (1 x 5 = 5 marks)**

- i. A _____ is a task that is undertaken to create a unique product, service, or result. 1
a) design
b) program
c) data
d) project
- ii. Which keyword is used to delete a table from the database in MySQL? 1
a) DROP
b) DELETE
c) REMOVE
d) ALTER
- iii. Which command is used to access the database “Exam” in MySQL? 1
- iv. What is the need of comments in a Java program? 1
- v. How many primitive datatypes are there in Java? 1
a) 7
b) 6
c) 8
d) 9
- vi. A _____ in java is a group of related classes. 1

Q.6 **Answer any 5 out of the given 6 questions (1 x 5 = 5 marks)**

- i. Identify the valid variable name in Java from the following: 1
a) int
b) \$net pay
c) Max_num
d) 25cent
- ii. What is the difference between the following two java statements? 1
a) int x = 50 ; b) Integer y = new Integer(50);

- iii. Aneesh has booked a railway ticket using an online ticketing website. When he reached to catch the train he found that he left the ticket at his hotel. What should he do? 1
- He can't board the train.
 - He should book a new ticket at station.
 - He should go back and get the ticket.
 - He can download the e-ticket from the website.
- iv. Identify the operator from the following that performs pattern searching in MYSQL. 1
- EXISTS operator
 - BETWEEN operator
 - LIKE operator
 - DISTINCT operator
- v. On executing DELETE command, if you get an error "foreign key constraint", what does it imply? 1
- Foreign key is not defined
 - Table is empty
 - Connectivity issue
 - Data is present in the other table
- vi. In Hospital databases are mainly used for: 1
- Storing information about patients such as their personal details, health records etc.
 - Storing information about patient subscription plans.
 - Storing only hardware device specifications.
 - Storing temporary files of patient internet browsing.

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** What is an adjective? Give an example 2
- Q.8** Suhail constantly talks about his achievements, expects admiration from everyone around him, and becomes angry when criticized. He believes he is more important than others and often disregards their feelings. 2
- Which personality disorder he has and how does it reflect self-management?
- Q.9** Priya noticed that old computers, broken mobile phones, and used batteries were being dumped behind her school building along with other waste materials. She initiated a campaign to collect these E-waste separately so that useful parts (like circuit boards, batteries, and screens) can be reused or refurbished. 2
- Which green skill is Priya promoting through her initiative?
- Q.10** List any two features of a presentation software? 2

- Q.11** Rini is a vegetable seller, who sells only organic vegetables. 2
a) Is Rini an Entrepreneur or a waged employee?
b) What is the difference between an entrepreneur and a waged employee?

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

- Q.12** Give the output of the following code segment: 2
int n = 8;
for (int j = 1 ; j <= n; j = j +2)
{
 System.out.print(j * j + " ");
}
- Q.13** Explain primary key with suitable example. 2
- Q.14** Sunil has mistakenly entered “A positive” instead of “A negative” in ‘bloodgroup’ 2
field of table ‘EMP’ for EID =125. Help him to write the correct SQL command to
make the desired changes in the table.
- Q.15** List any two ways in which database application is used in the Banking Sector. 2
- Q.16** What are infinite loops in Java? Explain with an example. 2

Answer any 2 out of the given 3 questions (3 x 2 = 6 marks)

- Q.17** Aniket is creating a Java program to calculate the volume of a Cuboid. He writes the 3
following code:
class Cuboid {
 int length ;
 int width ;
 int height ;
 int calculateVolume(){
 return length * width* height ;
 }
 public static void main(String[] args) {
 Cuboid c1= new Cuboid();
 c1.length = 15;
 c1.width = 10;
 c1.height = 10;
 System.out.println(“Volume:” + c1.calculateVolume());
 }
}
- a) What does the method calculateVolume() do in this program?
b) How is the object of the class created?
c) What will be the output of the program?

Q.18 Sayed is the owner of Genz Fashion Company that deals in garments. He wants to make a Database Application for his company. Suggest any 6 possible entities that can be used in the database for his website. 3

Q.19 Explain the use of any three aggregate functions used in MySQL. 3

Answer any 3 out of the given 5 questions (4 x 3 = 12 marks)

Q.20 Consider the statement: 4
String name = "Argentina Won";
Write a single line Java code using String methods to perform the following:
a) Convert the name to upper case.
b) To find the index of 'W' in the string.
c) Check whether the name contains "Win" in it or not
d) Add a new string "World Cup 2022" at the end of original string.

Q.21 Shinod wants to join an online course in Python. He also want to pay the fee for the online course through their website. 4
a) Name any one website he should browse to join the course.
b) Give any one benefit of online courses to Shinod.
c) What are the precautions to be followed while performing the online transactions?
d) Give any one advantage to the institute providing the online transaction.

Q.22 What is the need of a constructor in OOP? Explain all features of a constructor. 2+2

Q.23 a) What is an array in Java? 1+2+1
b) Write a Java program to create an integer array of five elements and display the array elements using a for loop.
c) What will happen if the program tries to access an array element using index that is out of range?

Q.24 Consider the given table GARMENTS: 4

GCODE	GNAME	SIZE	COLOUR	PRIZE
110	T-Shirt	XL	Red	1400
111	Jeans	L	Blue	1600
112	Skirt	M	Black	1100
113	Ladies Jacket	XL	Blue	4000
114	Trousers	L	Brown	1500
115	Ladies Top	L	Pink	1200

Write SQL commands for the following:

- To display names of those garments that are available in 'XL' size.
- To change the colour of garment with code 114 to 'Orange'
- To display the names of garments its size and price in descending order of the price.
- To remove the column 'COLOUR' from the table GARMENTS.