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**INDIAN SCHOOL MUSCAT
COMMON PRE BOARD EXAMINATION-2023
INFORMATION TECHNOLOGY(CODE:802)**



CLASS : XII
DATE: 11-02-2023

TIME ALLOTTED : 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.
 - V.

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. | Write the keyboard shortcuts for the following: | 1 |
| | (a) For making the text bold. (b) To cut a portion of a paragraph. | |
| ii. | A person with this personality disorder is detached and aloof, and prone to introspection and fantasy. | 1 |
| | (a) Paranoid personality disorder | |
| | (b) Antisocial personality disorder | |
| | (c) Histrionic personality disorder | |
| | (d) Schizoid personality disorder | |

- iii. Ms. Sona is helping her sister to overcome a personality disorder. What should she do? 1
 - (a) Talk to her sister
 - (b) Engage her in hobbies
 - (c) Help her build confidence
 - (d) All of the above
- iv. What are the main types of data that can be entered to a spreadsheet? 1
- v. Salman tries new ideas as a tailor in a garment factory. Salman is a/an _____. 1
 - (a) entrepreneur
 - (b) wage employed person
 - (c) labourer
 - (d) unskilled worker
- vi. Ms. Mary believes that she will not have the ability to work with a team when she starts her business. The barrier she is facing is _____. 1
 - (a) getting capital
 - (b) self-doubt
 - (c) risk taking
 - (d) lack of planning

Q.2 Answer any 5 out of the given 7 questions (1 x 5 = 5 marks)

- i. _____ command is used to delete a table from a database. 1
 - (a) Alter
 - (b) Delete
 - (c) Drop
 - (d) Modify
- ii. Which of the following phases is the first to be taken care in a project development? 1
 - (a) Implementation Phase
 - (b) Design Phase
 - (c) Requirements Definition Phase
 - (d) Testing Phase
- iii. _____ method of a String Class Compare a string with specified object. 1
 - (a) charAt()
 - (b) length()
 - (c) isEmpty()
 - (d) equals()
- iv. Which SQL keyword is used to group the result? 1
 - (a) GROUP
 - (b) GROUP BY
 - (c) ORDER
 - (d) ORDER BY
- v. What is a compiler? 1
- vi. How can we make the password safer while creating passwords for internet transactions? 1

vii. Write any two benefits of online shopping. 1

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

i. How can we use database management in E-Commerce? 1

ii. If a = 35 and b = 70, What will be the output of System.out.println (a < b) ; ? 1

iii. What is a database management system? 1

iv. Which of the following sites is not an educational site? 1

- (a) udacity.org
- (b) khanacademy.com
- (c) coursera.org
- (d) ibibo.com

v. What do you mean by entity integrity constraint in MySQL? 1

vi. State True or False. 1

“A project requires finite resources that are required to complete the project”.

vii. Identify the data types and variable names in java from the following: 1

Calc , int , Sum , double

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

i. What are the two categories of web based applications? 1

ii. Mr. Abdul Hameed is creating a table MOVIE with fields Movieno, Name, Director, Artist and Rating. He want that the value in the Rating column to be fixed as ‘4’ , if value in this column is not entered. Which constraint should he use at the time of creating MOVIE table? 1

- (a) Not null
- (b) Default
- (c) Check
- (d) Primary key

iii. How are the bill payments made in online shopping? 1

iv. Which member function of the Integer wrapper class allows access to the int value held in it? 1

v. What is a method in Java? 1

vi. Which of the following query is correct?

- (a) select grno, name student where grno =4553;
- (b) select name, marks from student where name = “B%”;
- (c) select name, marks from student where name = “Abijith” ;
- (d) select grno, name from student set grno = 3545;

- Q.5** **Answer any 5 out of the given 6 questions (1 x 5 = 5 marks)**
- Mr. Thushar wants to store marks 99.5,77.5,88,67,72 in an array. Write the correct java statement to store the above marks in an array(assume the array name as marks). 1
 - Ms. Sunitha want to display those rows whose category is “Abstract” from the table “Exhibition”. She wrote the following MySQL command but it was not correct. Rewrite the correct command.
Select * from Exhibition category = “Abstract” ; 1
 - Mr. Mukund wants to input the price of laptop as 999999.99.What should be the datatype and size of the column price in the table? 1
 - What are the rules for naming variables in Java? 1
 - What is the difference between b = 10 and b ==10 in Java? 1
 - What do you mean by exception in Java? 1

- Q.6** **Answer any 5 out of the given 6 questions (1 x 5 = 5 marks)**
- What do you mean by an “object” in java? 1
 - What is the difference between while and do...while loops Java? 1
 - Mr.Sushant is booking a railway ticket using an online ticketing website makemytrip.com. 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 can download the e-ticket from the website
 - He should go back and get the ticket
 - He should book a new ticket at the railway station
 - Ms. Veena has created a database with the name “Filmfest”. Help her to access the database by writing the correct MySQL statement. 1
 - What is the MYSQL command to list the name and salary of employees (name and salary fields are there in the table) in the descending order of the salary from the **Employee** table? 1
 - What do you mean by a parameterized constructor in Java? 1

SECTION B : SUBJECTIVE TYPE QUESTIONS

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

Answer each question in 20 – 30 words.

- Q.7** Ms. Suma is a person coming under the personality characteristic “Extraversion”. What are the qualities of those people with the above personality characteristic? 2
- Q.8** What is the use of a presentation software? Name any two presentation software. 1+1

- Q.9** Why decisiveness is considered as one the most important attitudes needed for an entrepreneur? 2
- Q.10** What are the 4 most common environmental barriers that an entrepreneur face while starting a business? 2
- Q.11** What do you mean by “Family Business Entrepreneurs”? 2
- Answer any 3 out of the given 5 questions (3 x 2 = 6 marks)**
- Q.12** What will be the value of variable ‘val’ after the execution of the following code snippet? why? 1+1
- ```

m = 10;
switch(m)
{ case 10: val = 5;
 case 20: val = 10;
 case 30: val = 15 ;
 case 40: val = 20 ; break; }

```
- Q.13** The following commands are giving errors. Write the correct MySQL commands. 1+1
- (a) **Insert into Purchase (101, colour cartridge, 100, Ruwi);**  
(b) **select \* from farewell where grno is D1034;**
- Q.14** Ms. Leane has mistakenly entered “Gold” instead of “Silver” in ‘Medal’ field of table ‘SPORTS’ for SID =433. Help her to write the correct SQL command to make the desired changes in the table. 2
- Q.15** A company is making database of its ‘Factory’ and ‘Materials’. ‘Factory’ table includes pcode, pname, pcost, preqno. Give details of ‘Materials’ table along with its schema. 1+1
- Q.16** Explain **if...else** statement in Java with an example. 1+1
- Answer any 2 out of the given 3 questions (2 x 3 = 6 marks)**
- Q.17** Consider the following code and answer the questions: 1+1+1
- ```

int y = 1;
do
{
  System.out.println(y + " ");
  y =+ 5 ;
} While( y<=20) ;

```
- (a) Name the coding error shown in the above code.
(b) What is the reason for the error?
(c) Write the corrected java code.
- Q.18** (a) What you mean by degree and cardinality of a relation? 2+1
(b) Which aggregate function is used to find the average of all the values for a selected attribute of a table?
- Q.19** Mention the three ways in which database management applications can be used in banking sector. 3

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

Q.20 Consider the statement: 1+1+1+1

String event = "Graduation Ceremony-2023" ;

Write a single line Java code using String methods to perform the following :

- (a) To find the length of the string stored in the variable 'event'.
- (b) To find the character at the 15th position in the string stored in the variable 'event'.
- (c) To replace the occurrence(s) of letter 'e' in the string with new character '*'.
- (d) To check whether the substring 'mony' is present in the string stored in the variable 'event'.

Q.21 What is object oriented programming? Explain with an example. 2+2

Q.22 Write a code in java using a do...while loop which prints all multiples of 7 from 1 to 50. 3+1
Is do...while loop an entry controlled loop or an exit controlled loop?

Q.23 Write the MySQL command for the following queries: 4

Table name: **STAFF**

SNO	NAME	DEPT	SALARY
1002	Vimal	Sales	30000
1003	Dinakar	Accounts	34000
1004	Komal	Sales	25000
1005	Azeez	Stores	38000
1006	Avinash	Production	35000

- (a) To display the names of the staff whose salary is in the range 20,000 – 50,000 (both values inclusive).
- (b) To display the various departments from the table.
- (c) To display the name and department of staff having exactly 5 letters in their name.
- (d) To display the minimum salary of staff.

Q.24 A garment company is planning to launch its website and a Mobile App. Mention four important factors that the company shall keep in mind to attract people for online shopping. 4

*****END OF THE QUESTION PAPER*****