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SET A



INDIAN SCHOOL MUSCAT
FIRST PRE-BOARD EXAMINATION
INFORMATION TECHNOLOGY

CLASS: XII

Sub. Code: 802

Time Allotted: 3 Hrs.

03.03.2021

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. Name any two stages of active listening. 1
- ii. Which of the following is not a parameter to describe an individual's personality? 1
(a) Self-confidence (b) Openness (c) Neuroticism (d) Agreeableness
- iii. What will you do to select an entire worksheet in a spreadsheet? 1
(a) Click the File tab and select properties from the list
(b) Click the grey row heading
(c) Click the grey rectangle in the upper left corner of the spreadsheet
(d) Click the grey column heading

- iv. 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
- v. Ann's children fall sick very often. They have cold and cough every month. What should Ann do? 1
 (a) Grow organic food in kitchen garden
 (b) Use air purifiers with HEPA filters
 (c) Keep them inside the house all the time
 (d) Paint her house with non-VOC paint
- vi. _____ is the shortcut key to create a new slide. 1

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

- i. A table in a DBMS is known as _____. 1
- ii. A persons information represented with two different phone numbers in two files is an example of _____. 1
 a. Data inconsistency
 b. Data integration
 c. Data redundancy
 d. Data duplication
- iii. a++ means 1
 a) a=a+2
 b) a=a+1
 c) Error
 d) a=2.
- iv. Which is correct from the following: 1
 a. while(i=3;i<10;i++)
 b. for(i=1,i<10,i++)
 c. for(i=1;i<10;i++)
 d. for(i=1:i<10:i++)
- v. Which out of following stage has creating backend, front end and connectivity between them 1
 a. Requirement definition phase
 b. Testing phase
 c. Design phase
 d. Implementation phase

- vi. Which loop executes at least once in JAVA? 1
- vii. To use a prebuilt class and associated methods in those class, _____ keyword should be used. 1

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

- i. The expression in the switch statement must evaluate to 1
 a) int b) float c) string d) text

- ii. Define domain in a relation. 1
- iii. The command used to delete a column from a table. 1
 - a. Alter
 - b. Drop
 - c. Delete
 - d. Update
- iv. Exception handling mechanism in Java is using 1
 - a. loops
 - b. try...catch block
 - c. Arrays
 - d. Constructors
- v. _____ is **not** a DDL command from the following. 1
 - a. Create
 - b. Update
 - c. Alter
 - d. Drop
- vi. Name any two e- learning websites. 1
- vii. _____ phase of web development, validity of different inputs are checked.. 1

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

- i. _____ is not an aggregate function in SQL 1
 - a. Count()
 - b. Max()
 - c. Sum()
 - d. Average()
- ii. _____ are variables that can hold a list of values of the same type. 1
 - a) Methods b) Arrays c) Constructors d) classes.
- iii. Give example of an infinite loop in JAVA. 1
- iv. What is a setter method ? . 1
- How is an attribute different from a tuple? 1
- v. Which out of the following wildcard is used in pattern matching in SQL 1
- vi.
 - a. \$
 - b. _
 - c. *
 - d. #

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

- i. Relation schema is set of _____. 1
- ii. Database creation happens in _____ of web development 1
 - a. Design Phase
 - b. Testing Phase
 - c. Implementation Phase
 - d. Requirement Definition Phase
- iii. Command to delete records of a table product - 1
 - a. Drop table product;
 - b. Delete * from product;
 - c. Delete from product;
 - d. Drop from table product;
- iv. Which of the following belongs to data type double. 1
 - a. 23.4
 - b. 24
 - c. Ture
 - d. 'allen'
- v. Give an example of a wrapper class. 1
- vi. Which of the following is not a reserved word in JAVA 1
 - a. for
 - b. continue
 - c. repeat
 - d. int

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

- i. Which of the following is an example of eGovernance 1
 - a. To buy a TV via online shopping.
 - b. To apply for renewal of Passport
 - c. To start an online coding course for 3 months
 - d. To transfer money online.
- ii. _____ is an instance of a class. 1
 - a) getter method
 - b) constructor
 - c) object
 - d) array
- iii. Which SQL keyword is used for pattern matching in SQL? 1
 - a) ORDER BY
 - b) DISTINCT
 - c) LIKE
 - d) GROUP BY

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| iv. | IDE stands for _____. | 1 |
| v. | Mention any precaution to be taken while doing online transactions. | 1 |
| vi. | What is the significance of break statement in a switchcase structure? | 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.

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| Q 7. | Write the difference between active and passive voice with examples of each. | 2 |
| Q 8. | Write any two ways to manage stress. | 2 |
| Q 9. | Explain what is meant by Neuroticism. | 2 |
| Q 10. | Write the steps to sort the data in a spreadsheet. | 2 |
| Q 11. | Explain the green jobs in agriculture. | 2 |

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

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| Q 12. | <p>The following code has error(s). Rewrite the correct code underlining all the corrections made :</p> <pre> int a = 5; String day = ""; switch (a); { case 1; { day = "Monday" break; case 2; day = "Tuesday": default; System.out.println("Invalid") </pre> | 2 |
| Q 13. | Explain the requirement definition phase of Web Application Development. | 2 |
| Q 14. | Explain any two database constraints. | 2 |
| Q 15. | State the potential areas of Work Integrated Learning in the field of hospitals | 2 |
| Q 16. | Explain the String functions toLowerCase () and endsWith(). | 2 |

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

Q 17. Give the output of the following code in JAVA: 3
int X=30,Y=7;
X++;
Y--;
System.out.println(X*Y);
System.out.println(X/Y);
System.out.println(X%Y);

Q 18. Explain two advantages and one disadvantage of online shopping. 3

Q 19. Define a) Relation state b) Cardinality c) Data redundancy 3

Answer any 3 out of the given 5 questions in 50– 80 words each (4 x 3 = 12 marks)

Q 20. (i) Mention at least 2 work areas which uses Database Management Systems. 4

(ii) What are methods ? Give one example.

Q 21. Consider the following and answer the questions. 4

(a) Write a query to create a table **Campus** with the following members:
collegeid(char(10)), collegename (char(30)), principal(char(30)),studentstrength (integer).

(b) Write a query to add a new row to a table Campus with the following information:
("P101", "R.B College", "Ramkumar", 5000).

(c) Write a query to sort the records in descending order of collegename.

(d) Write a query to change the studentstrength to 20000 for collegeid 'C102'.

Q 22. i) Write a JAVA program (method) to develop an application in JAVA to print sum of even numbers from 2 to 30. 4

ii) How can threads be created in Java? Briefly explain with an example.

Q 23. What are the objectives of eGovernance ? Mention any three advantages of e-learning. 4

Q 24. i) Define a class book in Java with the following details. 4
Data members – title, author, publisher, genre (All of them are of String data type), price - double data type.

Member method- display() to display all the data members..

ii) Write the use of default statement in switch construct in JAVA.

End of the Question Paper