



SAMPLE QUESTION PAPER - TERM 2

Information Technology (Code 402)

Sample Question Paper (Term 2) Class X (Session 2021-2022)

Max. Time Allowed: 1 Hour (60 min)

Max. Marks: 25

General Instructions:

- Please read the instructions carefully
- This Question Paper is divided into 03 sections, viz., Section A, Section B and Section C.
- Section A is of 05 marks and has 06 questions on Employability Skills.
 - Questions numbers 1 to 4 are one mark questions. Attempt any three questions.
 - Questions numbers 5 and 6 are two marks questions. Attempt any one question.
- Section B is of 12 marks and has 12 questions on Subject Specific Skills.
 - Questions numbers 7 to 12 are one mark questions. Attempt any four questions.
 - Questions numbers 13 to 18 are two marks questions. Attempt any four questions.
- Section C is of 08 marks and has 03 competency-based questions.
 - Questions numbers 19 to 21 are four marks questions. Attempt any two questions.
- Do as per the instructions given in the respective sections.
- Marks allotted are mentioned against each section/question.

Section A

(3 + 2 = 5 marks)

ANSWER ANY 3 QUESTIONS OUT OF THE GIVEN 4 QUESTIONS. EACH QUESTION IS OF 1 MARK.		1 X 3 = 3
Q.1	What is the single most important contribution of entrepreneurs to society?	1
Ans.	Employment generation	
Q.2	Name the entrepreneurs who do not take risks and believe in following the age-old methods and practices.	1
Ans.	Empirical Entrepreneur	
Q.3	Which process converts vegetable and other organic waste into soil conditioners?	1
Ans.	Composting	
Q.4	Which type of cells are used to make solar power systems?	1
Ans.	Photovoltaic cells	

ANSWER ANY 1 QUESTION OUT OF THE GIVEN 2 QUESTIONS. EACH QUESTION IS OF 2 MARKS.		2 X 1 = 2
Q.5	List any two objectives of entrepreneurship development.	2
Ans.	The two objectives of entrepreneurship development are as follows: <ul style="list-style-type: none"> ○ Increasing the entrepreneur base in the country ○ Encouraging potential entrepreneurs to pursue entrepreneurship 	

Q.6	Write any two advantages of using solar energy set-ups for personal or commercial use.	2
Ans.	The two advantages of using solar energy set-ups for personal or commercial use are as follows: <ul style="list-style-type: none"> ○ Reduced electricity bills leading to saving of money ○ Conservation of the environment 	

Section B

(4 + 8 = 12 marks)

ANSWER ANY 04 QUESTIONS OUT OF THE GIVEN 06 QUESTIONS		1 X 4 = 4
Q.7	How many layers are there in the OSI model?	1
Ans.	7	
Q.8	A _____ is a file that contains small textual information about the activity of a user over the Internet.	1
Ans.	Cookie	
Q.9	Define Web Accessibility.	1
Ans.	It refers to the phenomenon of designing and developing technologies, tools and web applications so that they can be easily used by people with disabilities.	
Q.10	The _____ statement retrieves zero or more rows from one or more database tables.	1
Ans.	Select	
Q.11	The procedure of arranging the data in a proper sequence, thereby, making it easy to handle _____.	1
Ans.	Sorting	
Q.12	Why does data inconsistency occur?	1
Ans.	Data inconsistency occurs due to the repetition of data.	

ANSWER ANY 04 QUESTIONS OUT OF THE GIVEN 06 QUESTIONS		2 X 4 = 8
Q.13	List any two benefits of networking.	2
Ans.	The two benefits of networking are: <ul style="list-style-type: none"> ○ Communication ○ Data-sharing 	
Q.14	Discuss any two types of blogs available on the Internet.	2
Ans.	The two different types of blogs available on the Internet are as follows: <ul style="list-style-type: none"> ○ Personal Blogs: These blogs are developed by a user for his/her personal use. ○ Corporate and Organizational Blogs: These blogs are created to generate business. 	
Q.15	Define Metropolitan Area Network (MAN). What are its characteristics?	2
Ans.	MAN generally connects two or more LANs or Campus Area Networks (CANs), for example, providing Internet services to users in a city. Some characteristics of MAN are as follows: <ul style="list-style-type: none"> ○ It covers a distance between 10 km and 100 km. ○ It operates at a speed of 34 Mbps to 155 Mbps. 	

Q.16	Explain the two types of languages used for creating and manipulating data in a database.	2
Ans.	The two types of languages used for creating and manipulating data in a database: <ul style="list-style-type: none"> ○ Data Definition Language (DDL): It comprises SQL commands that are used for defining database schema. Some DDL commands are CREATE, DROP, ALTER, TRUNCATE, COMMENT and RENAME. ○ Data Manipulation Language (DML): It refers to languages that are used for creating and manipulating data in a database. Some DML commands are SELECT, INSERT, UPDATE, and DELETE. 	
Q.17	“The field properties play an important role in controlling the behaviour of a field.” List any four properties that you can assign to a field.	2
Ans.	The four properties that can be assigned to a field are as follows: <ul style="list-style-type: none"> ○ AutoValue: Specifies whether the entries are auto incremental values or not. ○ Entry Required: Specifies whether the entry of data in the selected field is mandatory or not. ○ Length: Specifies the field length, i.e., the size of the field. ○ Decimal Places: Specifies the number of decimal places allowed in the field. 	
Q.18	Enlist the two ways by which you can create report in OpenOffice Base.	2
Ans.	In OpenOffice Base, you can create report in two ways: <ul style="list-style-type: none"> ○ Create Report in Design View ○ Use Wizard to Create Report 	

Section C

(2 x 4 = 8 marks)

(COMPETENCY BASED QUESTIONS)

ANSWER ANY 02 QUESTIONS OUT OF THE GIVEN 03 QUESTIONS		
Q.19	Imran likes to play online games on his computer. He used to spend long hours playing games. But, for the past few days, he has been experiencing that computer is responding slower and sometimes gets hanged. <ol style="list-style-type: none"> a. What could be the reason behind this situation? b. What is the importance of antivirus software? c. List any two examples of antivirus software. d. What is the importance of data backup in this situation? 	4
Ans.	<ol style="list-style-type: none"> a. There could be virus attack in Imran's computer b. Antivirus software is used to identify, prevent and take action against malicious programs, such as viruses and worms, by deactivating or deleting them. c. Two popular examples of antivirus software applications are Norton Antivirus and McAfee. d. Taking data backup ensures that your computer data is protected and can be recovered. 	

Q.20	<p>Jessica wants to purchase some laptop accessories from an online website. She has to make online payment for the items to complete the transaction. Help by answering her following queries.</p> <ol style="list-style-type: none"> 1. Name any two popular online transaction websites. 2. Suggest any two options that she can use to make payment of his bill on the online shopping website. 3. Name any two situations where online shopping could be useful. 4. Write full form of EFT and OLTP in reference to online shopping. 	4																																																															
Ans.	<ol style="list-style-type: none"> 1. Amazon, Flipkart 2. Internet banking, Debit card 3. The two advantages of online shopping are : <ol style="list-style-type: none"> a. It saves time of visiting the shops physically b. Ease in comparing the price of the products 4. EFT stands for Electronic Funds Transfer and OLTP stands for Online Transaction Processing. 																																																																
Q.21	<p style="text-align: center;">EMPLOYEES</p> <table border="1" data-bbox="243 836 1210 1213"> <thead> <tr> <th>EID</th> <th>ENAME</th> <th>AGE</th> <th>DESIGNATION</th> <th>DATE OF JOIN</th> <th>SALARY</th> <th>GENDER</th> </tr> </thead> <tbody> <tr> <td>E001</td> <td>YOGESH</td> <td>28</td> <td>TEAM LEADER</td> <td>10/1/2017</td> <td>22000</td> <td>M</td> </tr> <tr> <td>E002</td> <td>PANKAJ</td> <td>25</td> <td>DESIGNER</td> <td>22/2/2019</td> <td>12000</td> <td>M</td> </tr> <tr> <td>E003</td> <td>NALINI</td> <td>26</td> <td>HR MANAGER</td> <td>4/3/2014</td> <td>24000</td> <td>F</td> </tr> <tr> <td>E004</td> <td>RISHI</td> <td>29</td> <td>MANAGER</td> <td>15/7/2012</td> <td>23000</td> <td>M</td> </tr> <tr> <td>E005</td> <td>YOGENDRA</td> <td>30</td> <td>ENGINEER</td> <td>17/3/2018</td> <td>19500</td> <td>M</td> </tr> <tr> <td>E006</td> <td>VAISHALI</td> <td>24</td> <td>TEAM LEADER</td> <td>4/5/2017</td> <td>18500</td> <td>F</td> </tr> <tr> <td>E007</td> <td>RITIKA</td> <td>29</td> <td>MANAGER</td> <td>6/6/2016</td> <td>26000</td> <td>F</td> </tr> <tr> <td>E008</td> <td>RAJNI</td> <td>27</td> <td>ACCOUNTS MANAGER</td> <td>4/8/2015</td> <td>27000</td> <td>F</td> </tr> </tbody> </table> <p>Write SQL commands:</p> <ol style="list-style-type: none"> a. To show all the information about team leaders in the company. b. To list the details of all the employees who are getting salary between 20000 to 25000. c. To display the designation of all the employees whose age is more than 25 years. d. To display the list of names of all the employees whose gender is female(F). 	EID	ENAME	AGE	DESIGNATION	DATE OF JOIN	SALARY	GENDER	E001	YOGESH	28	TEAM LEADER	10/1/2017	22000	M	E002	PANKAJ	25	DESIGNER	22/2/2019	12000	M	E003	NALINI	26	HR MANAGER	4/3/2014	24000	F	E004	RISHI	29	MANAGER	15/7/2012	23000	M	E005	YOGENDRA	30	ENGINEER	17/3/2018	19500	M	E006	VAISHALI	24	TEAM LEADER	4/5/2017	18500	F	E007	RITIKA	29	MANAGER	6/6/2016	26000	F	E008	RAJNI	27	ACCOUNTS MANAGER	4/8/2015	27000	F	4
EID	ENAME	AGE	DESIGNATION	DATE OF JOIN	SALARY	GENDER																																																											
E001	YOGESH	28	TEAM LEADER	10/1/2017	22000	M																																																											
E002	PANKAJ	25	DESIGNER	22/2/2019	12000	M																																																											
E003	NALINI	26	HR MANAGER	4/3/2014	24000	F																																																											
E004	RISHI	29	MANAGER	15/7/2012	23000	M																																																											
E005	YOGENDRA	30	ENGINEER	17/3/2018	19500	M																																																											
E006	VAISHALI	24	TEAM LEADER	4/5/2017	18500	F																																																											
E007	RITIKA	29	MANAGER	6/6/2016	26000	F																																																											
E008	RAJNI	27	ACCOUNTS MANAGER	4/8/2015	27000	F																																																											
Ans.	<ol style="list-style-type: none"> a. Select * from EMPLOYEES where DESIGNATION = 'TEAM LEADER'; b. Select * from EMPLOYEES where SALARY >= 20000 and SALARY <=30000; c. Select DESIGNATION from EMPLOYEES where AGE >25; d. Select ENAME from EMPLOYEES where GENDER='F'; 																																																																