Series: AQ@QA SET-4

प्रश्न-पत्र कोड Q.P. Code 89

रोल नं.				
Roll No.				

परीक्षार्थी प्रश्न-पत्र कोड को उत्तर-पुस्तिका के मुख-पृष्ठ पर अवश्य लिखें।

Čandidates must write the Q.P. Code on the title page of the answer-book.

- कृपया जाँच कर लें कि इस प्रश्न-पत्र में मुद्रित पृष्ठ 15 हैं।
- प्रश्न-पत्र में दाहिनें हाथ की ओर दिए गए प्रश्न-पत्र कोड को छात्र उत्तर-पुस्तिका के मुख-पृष्ठ पर लिखें।
- कृपया जाँच कर लें कि इस प्रश्न-पत्र में 21 प्रश्न हैं।
- कृपया प्रश्न का उत्तर लिखना शुरू करने से पहले, उत्तर-पुस्तिका में प्रश्न का क्रमांक अवश्य लिखें।
- इस प्रश्न-पत्र को पढ़ने के लिए 15 मिनट का समय दिया गया है। प्रश्न-पत्र का वितरण पूर्वाह्न में 10.15 बजे किया जाएगा। 10.15 बजे से 10.30 बजे तक छात्र केवल प्रश्न-पत्र को पढ़ेंगे और इस अवधि के दौरान वे उत्तर-पुस्तिका पर कोई उत्तर नहीं लिखेंगे।
- Please check that this question paper contains 15 printed pages.
- Q.P. Code given on the right hand side of the question paper should be written on the title page of the answer-book by the candidate.
- Please check that this question paper contains 21 questions.
- Please write down the Serial Number of the question in the answer-book before attempting it.
- 15 minute time has been allotted to read this question paper. The question paper will be distributed at 10.15 a.m. From 10.15 a.m. to 10.30 a.m., the candidates will read the question paper only and will not write any answer on the answer-book during this period.



सूचना प्रौद्योगिकी



INFORMATION TECHNOLOGY

निर्धारित समय : 1 घण्टा अधिकतम अंक : 25
Time allowed : 1 hour Maximum Marks : 25

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सामान्य निर्देश:

- (i) कृपया निर्देशों को सावधानी से पढ़ें।
- (ii) प्रश्नपत्र को 03 खंडों में बाँटा गया है खण्ड-**क**, खण्ड-**ख** और खण्ड**-ग** /
- (iii) खण्ड-**क, 5** अंक का है जिसमें रोज़गार कौशलों पर **6** प्रश्न हैं।
 - (a) प्रश्न संख्या 1 से 4 **एक** अंक के प्रश्न हैं। इनमें से किन्हीं **तीन** के उत्तर दें।
 - (b) प्रश्न संख्या **5** और **6 दो** अंक के प्रश्न हैं। इनमें से किसी **एक** का उत्तर दें।
- (iv) खण्ड-**ख, 12** अंक का है और इसमें विषय विशेष के प्रश्न हैं।
 - (a) प्रश्न **7** से **12 एक** अंक वाले प्रश्न हैं, इनमें किन्हीं **चार** के उत्तर दें।
 - (b) प्रश्न 13 से 18 दो अंक वाले प्रश्न हैं, इनमें से किन्हीं **चार** प्रश्नों के उत्तर दें।
- ***** (v) खण्ड-**ग**, 8 अंक का है और इसमें **तीन** क्षमता आधारित प्रश्न हैं। प्रश्न सं. **19** से **21 चार** अंकों वाले प्रश्न हैं, इनमें से किन्हीं **दो** प्रश्नों के उत्तर दें।
 - (vi) प्रत्येक खण्ड के साथ दिए गए निर्देशों के अनुसार कार्य करें।
 - (vii) निर्धारित अंक प्रत्येक खण्ड/प्रश्न के सामने दिए गए हैं।









General Instructions:

- (i) Please read the instructions carefully.
- (ii) This question paper is divided into **03** Sections, viz., Section-A, Section-B and Section-C.
- (iii) Section A is of 5 marks and has 6 questions on Employability Skills.
 - (a) Question numbers 1 to 4 are **one** mark questions. Attempt any **three** questions.
 - (b) Question numbers 5 and 6 are two marks questions. Attempt any one question.
- (iv) Section B is of 12 marks and has 12 questions on Subject Specific Skills.
 - (a) Question numbers 7 to 12 are one mark questions. Attempt any four questions.
 - (b) Question numbers 13 to 18 are two marks questions. Attempt any four questions.
- (v) Section C is of 8 marks and has 3 Competency-based questions.

 Question number 19 to 21 are four marks questions. Attempt any two questions.
- (vi) Do as per the instructions given in the respective sections.
- (vii) Marks allotted are mentioned against each section/question.

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खण्ड – क

(3 + 2 = 5 Marks)

दिए गए 4 प्रश्नों में से किन्हीं 3 प्रश्नों के उत्तर लिखिए । प्रत्येक प्रश्न 1 अंक का है ।

 $1 \times 3 = 3$

उस व्यक्ति का नाम लिखिए जो ग्राहकों के लिए मूल्य उत्पन्न करने और संपत्ति पैदा करने के तत्त्वों को 1. सृजनात्मक तरीके से जोड़ता है।

1

उस कौशल का नाम लिखिए जो किसी को नेतृत्व करने में, निर्देशन करने में और व्यवसाय में काम करने 2. वाले लोगों का पर्यवेक्षण करने में सहायक होता है।

1

प्रकृति के किन्हीं दो तत्त्वों (एलीमेंट्स) के नाम लिखिए। 3.

1

संधारणीय विकास (सस्टेनेबल डेवलपमेंट) को प्रोत्साहित करने में अपनाए जा सकने वाली किसी एक 4. विधि को बताइए।

1

दिए गए 2 प्रश्नों में से किसी 1 प्रश्न का उत्तर दीजिए । प्रत्येक प्रश्न 2 अंकों का है ।

 $2 \times 1 = 2$

कृषि उद्यमिता तथा लघु उद्योग उद्यमिता में अंतर एक बिंदु में बताइए। 5.

2

अपने दैनिक जीवन में $4\mathrm{Rs}'$ और $1\mathrm{U}$ का अनुगमन करते हुए हम संधारणीय (सस्टेनेबल) समाज के 6. निर्माण में योगदान दे सकते हैं । $4\mathrm{Rs}$ ' और $1\mathrm{U}$ में से किसी एक शब्द (टर्म) को समझाइए ।

2

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SECTION - A

(3 + 2 = 5 Marks)

Answer any 3 questions out of the given 4 questions. Each question is of 1 mark.

- Name the person who combines factors in a creative manner to generate value for customers and create wealth.
- Name the skill that helps anyone to lead, guide and supervise people who work for the business.
- 3. Name any two elements of nature.
- 4. Give any one method that we can adopt to promote Sustainable Development. 1
 - Answer any 1 question out of the given 2 questions. Each question is of 2 marks.
- 5. Differentiate between Agricultural Entrepreneurship and Small ScaleEntrepreneurship with one point only.
- 6. In our daily life we can contribute to create a Sustainable Society by following 4Rs' and 1U of Sustainability. Explain any one term out of 4Rs' and 1U.
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खण्ड – ब

(4 + 8 = 12 Marks)

दिए गए 6 प्रश्नों में से किन्हीं 4 प्रश्नों के उत्तर दीजिए।

 $1 \times 4 = 4$

1

- एक संगठन है जो डायल-अप या डाइरेक्ट या वायरलेस कनेक्शन के द्वारा आपको इंटरनेट
 तक पहुँचने देता है ।
- 8. उस सॉफ्टवेयर या हार्डवेयर सिक्युरिटी डिवायस का नाम लिखिए जो नेटवर्क ट्रैफिक का विश्लेषण करता है और निश्चित करता है कि ट्रैफिक को अनुमित दी जाए या नहीं।
- 9. _____ घायल को बचाने के लिए दी जाने वाली तत्काल सहायता है जिससे उसे मेडिकल सहायता
 मिलने तक उसका जीवन बचाया जा सके और स्वास्थ्य को कम हानि पहुँचे ।
- 10. जब एक या अधिक कॉलमों पर प्राइमरी की कॉन्सट्रेंट लागू किया जाता है तो उसे _____ कहा जाता है। 1
- 11. किसी तालिका में एक अकेले डेटा आइटम को दिखाने वाली पंक्ति ('रो') को _____ कहा जाता है । 1
- 12. सॉर्टिंग शब्द को स्पष्ट कीजिए।
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SECTION - B

(4 + 8 = 12 Marks)

1

Answer any 4	questions out of t	he given 6 d	nuestions	$1 \times 4 = 4$
Answer any 4 o	luesnons out of t	me given o c	questions.	1 X 4 - 4

- 7. _____ is an organization which provides you with access to the Internet via a dial-up or direct or wireless connection.
- Name the software or hardware security device that analyzes the networktraffic and determine if the traffic should be allowed or not.
- 9. _____ is the immediate assistance provided to the injured to save lifeand minimize health loss till the proper medical aid/facility is provided.1
- 10. When primary key constraint is applied on one or more columns then it is known as ______.
- 11. A row that represents a single data item in a table is known as _____. 1
- 12. Explain the term Sorting.
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दिए गए 6 प्रश्नों में से किन्हीं 4 प्रश्नों के उत्तर दीजिए।

 $2 \times 4 = 8$

13. स्ट्रॉन्ग पासवर्ड बनाने के लिए अपनाए जाने वाले किन्हीं चार नियमों को लिखिए।

 $\mathbf{2}$

अपने निजी वेब पेजों के निर्माण के लिए गैर-तकनीकी (अथवा तकनीकी) उपभोक्ताओं के द्वारा प्रयुक्त संवाद शैली (डिस्कशन स्टाइल) साइट को क्या विशेष नाम दिया गया है ? ऐसी वेबसाइटों के कोई दो उदाहरण दीजिए जो हमें डिस्कशन स्टाइल साइट मुफ्त में बनाने में सहायता करती हैं।

2

15. LAN और WAN में केवल दो बिंदु में अंतर स्पष्ट कीजिए।

2

16. उन दो प्रकार के संबंधों (रिलेशनशिप) को समझाइए जो तालिकाओं (टेबल) में बनाए जा सकते हैं।

2

17. फॉर्म और रिपोर्टस में क्या अंतर है ?

 $\mathbf{2}$

18. नीचे दी गई तालिका के अनुसार किन्हीं दो कॉलम नाम/एट्रीब्यूट और उनके डेटा टाइप की पहचान कीजिए।

2

तालिका: PLAYER

PID	PNAME	RUNS	GENDER	DOB
P101	SACHIN	13000	M	10/04/2001
P102	KAPIL	7000	M	12/02/1998
P103	SAURABH	12000	M	13/04/2001
P104	VIRAT	12500	M	17/03/2005

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Answer any 4 questions out of the given 6 questions.

 $2 \times 4 = 8$

- 13. Write any four rules which is to be followed for creating strong passwords. 2
- 14. What is the special name given to the discussion style site used by non-technical (or technical) users for creating personal web pages? Give any two examples of websites that help us to create such discussion style sites for free.

2

15. Differentiate between LAN and WAN with two points only.

2

16. Explain any two types of relationship that can be created in tables.

2

17. What is difference between Form and Reports?

2

18. Identify any two Column name/Attribute and their data types from a given table: PLAYER

2

Table: PLAYER

PID	PNAME	RUNS	GENDER	DOB
P101	SACHIN	13000	M	10/04/2001
P102	KAPIL	7000	M	12/02/1998
P103	SAURABH	12000	M	13/04/2001
P104	VIRAT	12500	M	17/03/2005

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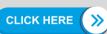


4

(दक्षता आधारित प्रश्न)

दिए गए 3 प्रश्नों में से किन्हीं 2 प्रश्नों के उत्तर दीजिए :

- 19. आर्यन बहुत चिन्तित हुआ जब उसे यह मालूम हुआ कि उसके चाचाजी के बैंक खाते से किसी ने सारी धनराशि निकाल ली है। उसकी समझ में नहीं आया कि जब उन्होंने अपना ATM कार्ड किसी को नहीं दिया तो यह कैसे हो सकता है।
 - (a) उसे एक तरीका बताइए जिससे वह सुरक्षित ऑन-लाइन ट्रैन्जेक्शन करने के लिए आश्वस्त हो सके।
 - (b) अपने कंप्यूटर को मालवेयर से बचाने के लिए उसे किस प्रकार के सॉफ्टवेयर की जरूरत है ?
 - (c) उसे 'फिशिंग' को समझने में सहायता कीजिए।
 - (d) वह यह भी समझता है कि कुकीज़ से कोई हानि नहीं है। उसे बताइए कि कुकीज़ भी उसके लिए कैसे हानिकारक हो सकती हैं।
- 20. वैश्विक महामारी के कारण घर पर रहना सबके लिए बाध्यता थी, किंतु इंटरनेट के कारण सारे विश्व में संपर्क था।
 - (a) वर्ल्ड वाइड वेब का क्या अर्थ है ? दो प्रकार के वेब ब्राउज़र के नाम लिखिए जिन्हें आप जानते हों ।
 - (b) समझाइए कि इंटरनेट पर डेटा-ट्रांसफर कैसे किया जाता है।





SECTION - C

 $(4 \times 2 = 8 \text{ Marks})$

(Competency Based Questions)

Write any 2 questions out of the given 3 questions:

19. Aryan is too much worried when he came to know that someone has withdrawn all money from his uncle's bank account. He was not able to understand how this could happen when he has not given his ATM card to anyone.

4

- Suggest him a way by which he can be assured that he is doing (a) secured online transaction.
- (b) Which type of software he needs to install in his computer to protect his computer from malware?
- (c) Help him to understand about Phishing.
- He also thinks cookies are harmless. Explain him how cookies can (d) also cause harm to him.
- 20. Due to pandemic everyone was bound to stay at home. But, due to internet the whole world was connected. 4
 - What is meant by World Wide Web? Also write any two web (a) browsers names that you know.
 - (b) Explain how data is transferred over internet.

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21. निम्नलिखित तालिका पर विचार कीजिए:

STUDENT

ADMNO	NAME	GRADE	DOB	MARKS	HOUSE	GENDER
1001	RUPAL	9	10/04/2006	76	GREEN	M
1002	RASHMI	9	08/12/2005	87	RED	F
1003	ARNAV	10	25/05/2004	81	GREEN	M
1004	SUMONA	9	23/08/2005	68	RED	F
1005	ARUN	9	16/07/2005	72	GREEN	M
1006	TIA	9	22/09/2005	91	BLUE	F
1007	ROSHAN	10	26/08/2004	89	BLUE	M

SQL कमांड लिखिए :

- (a) Green House के सभी विद्यार्थियों के विस्तृत विवरण को प्रदर्शित करने के लिए।
- (b) उनके 5 अंक बढ़ाने के लिए जिनका ADMNO 1005 है।
- (c) 80 से कम अंक पाने वाले सभी विद्यार्थियों के विस्तृत विवरण को प्रदर्शित करने के लिए।
- (d) अंकों के अवरोही क्रम में सभी विद्यार्थियों की सूची प्रदर्शित करने के लिए।



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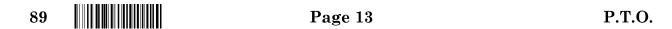
21. Consider the following table:

STUDENT

ADMNO	NAME	GRADE	DOB	MARKS	HOUSE	GENDER
1001	RUPAL	9	10/04/2006	76	GREEN	M
1002	RASHMI	9	08/12/2005	87	RED	F
1003	ARNAV	10	25/05/2004	81	GREEN	M
1004	SUMONA	9	23/08/2005	68	RED	F
1005	ARUN	9	16/07/2005	72	GREEN	M
1006	TIA	9	22/09/2005	91	BLUE	F
1007	ROSHAN	10	26/08/2004	89	BLUE	M

Write SQL Commands:

- (a) To display the details of all students of Green House.
- (b) To increase the marks by 5 whose ADMNO is 1005.
- (c) To display the details of all students whose MARKS are less than 80.
- (d) Display the list of all students in descending order of MARKS.







दृष्टिबाधित विद्यार्थियों के लिए:

21. निम्नलिखित को परिभाषित कीजिए:

4

- डाटाबेस मैनेजमेंट सिस्टम (DBMS)
- प्राइमरी कुँजी (b)
- न्यूमेरिक डाटा टाईप (c)
- सांदर्भिक समग्रता (रेफेरेंशियल इंटेग्रिटी) (d)

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For Visually Impaired Students:

Define the following:

4

- (a) Database Management System
- Primary Key (b)
- Numeric Data Type (c)
- (d) Referential Integrity

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*



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Secondary School Term II Examination, 2022

Marking Scheme – INFORMATION TECHNOLOGY (SUBJECT CODE – 402) (PAPER CODE – 89)

General Instructions: -

- 1. You are aware that evaluation is the most important process in the actual and correct assessment of the candidates. A small mistake in evaluation may lead to serious problems which may affect the future of the candidates, education system and teaching profession. To avoid mistakes, it is requested that before starting evaluation, you must read and understand the spot evaluation guidelines carefully.
- 2. "Evaluation policy is a confidential policy as it is related to the confidentiality of the examinations conducted, Evaluation done and several other aspects. Its' leakage to public in any manner could lead to derailment of the examination system and affect the life and future of millions of candidates. Sharing this policy/document to anyone, publishing in any magazine and printing in News Paper/Website etc. may invite action under IPC."
- 3. Evaluation is to be done as per instructions provided in the Marking Scheme. It should not be done according to one's own interpretation or any other consideration. Marking Scheme should be strictly adhered to and religiously followed. However, while evaluating, answers which are based on latest information or knowledge and/or are innovative, they may be assessed for their correctness otherwise and marks be awarded to them. In Class-X, while evaluating two competency based questions, please try to understand given answer and even if reply is not from marking scheme but correct competency is enumerated by the candidate, marks should be awarded.
- 4. The Head-Examiner must go through the first five answer books evaluated by each evaluator on the first day, to ensure that evaluation has been carried out as per the instructions given in the Marking Scheme. The remaining answer books meant for evaluation shall be given only after ensuring that there is no significant variation in the marking of individual evaluators.
- 5. Evaluators will mark ($\sqrt{\ }$) wherever answer is correct. For wrong answer 'X' be marked. Evaluators will not put right kind of mark while evaluating which gives an impression that answer is correct and no marks are awarded. **This is most common mistake which evaluators are committing.**
- 6. If a question has parts, please award marks on the right-hand side for each part. Marks awarded for different parts of the question should then be totalled up and written in the left-hand margin and encircled. This may be followed strictly.
- 7. If a question does not have any parts, marks must be awarded in the left-hand margin and encircled. This may also be followed strictly.
- 8. If a student has attempted an extra question, answer of the question deserving more marks should be retained and the other answer scored out.
- 9. No marks to be deducted for the cumulative effect of an error. It should be penalized only once.
- 10. A full scale of marks _____ (example 0-25 marks as given in Question Paper) has to be used. Please do not hesitate to award full marks if the answer deserves it.
- 11. Every examiner has to necessarily do evaluation work for full working hours i.e. 8 hours every day and evaluate 30 answer books per day in main subjects and 35 answer books per day in other subjects (Details are given in Spot Guidelines). This is in view of the reduced syllabus and number of questions in question paper.
- 12. Ensure that you do not make the following common types of errors committed by the Examiner in the past: -



- Leaving answer or part thereof unassessed in an answer book.
- Giving more marks for an answer than assigned to it.
- Wrong totalling of marks awarded on a reply.
- Wrong transfer of marks from the inside pages of the answer book to the title page.
- Wrong question wise totalling on the title page.
- Wrong totalling of marks of the two columns on the title page.
- Wrong grand total.
- Marks in words and figures not tallying.
- Wrong transfer of marks from the answer book to online award list.
- Answers marked as correct, but marks not awarded. (Ensure that the right tick mark is correctly and clearly indicated. It should merely be a line. Same is with the X for incorrect answer.)
- Half or a part of answer marked correct and the rest as wrong, but no marks awarded.
- 13. While evaluating the answer books if the answer is found to be totally incorrect, it should be marked as cross (X) and awarded zero (0) Marks.
- 14. Any unassessed portion, non-carrying over of marks to the title page, or totalling error detected by the candidate shall damage the prestige of all the personnel engaged in the evaluation work as also of the Board. Hence, in order to uphold the prestige of all concerned, it is again reiterated that the instructions be followed meticulously and judiciously.
- 15. The Examiners should acquaint themselves with the guidelines given in the Guidelines for spot Evaluation before starting the actual evaluation.
- 16. Every Examiner shall also ensure that all the answers are evaluated, marks carried over to the title page, correctly totalled and written in figures and words.
- 17. The Board permits candidates to obtain photocopy of the Answer Book on request in an RTI application and also separately as a part of the re-evaluation process on payment of the processing charges.





MARKING SCHEME

Secondary School Examination TERM-II, 2022

INFORMATION TECHNOLOGY (Subject Code-402)

[Paper Code: 89]

Maximum Marks: 25

General Instructions:

- 1. Please read the instructions carefully.
- 2. This Question Paper is divided into 03 sections, viz. Section A, Section B and Section C.
- 3. Section A is 05 marks and has 06 questions on Employability Skills.
 - a) Question numbers 1 to 4 are one mark questions. Attempt any three questions.
 - b) Question numbers 5 and 6 are two marks questions. Attempt any one question.
- 4. Section B is of 12 marks and has 12 questions on Subject Specific Skills.
 - a) Question numbers 7 to 12 are one mark questions. Attempt any four questions.
 - b) Question numbers 13 to 18 are two marks questions. Attempt any four questions.
- 5. Section C is of 8 marks and has 3 Competency-based questions:

Question numbers 19 to 21 are four marks questions. Attempt any two questions.

- 6. Do as per the instructions given in the respective sections.
- 7. Marks allotted are mentioned against each section/question.

Q. No.	EXPECTED ANSWER / VALUE POINTS	Marks					
	SECTION—A	3+2=5					
,	Answer any 3 questions out of the given 4 questions. Each question is of <i>one</i> mark.	1×3=3					
1.	Name the person who combines factors in a creative manner to generate value for customers and create wealth.	1					
	Ans: Entrepreneur						
	(1 mark for correct answer)						
2.	Name the skill that helps any one to lead, guide and supervise people who work for the business.	1					
	Ans: Entrepreneurial skill / Leadership skill						
	(1 mark for any correct answer)						
3.	Name any two elements of nature.						
	Ans: Prithvi (Earth), Agni (Fire), Jal (Water), Vaayu (Air), Aakash (Space)						
	(1/2 mark for any one correct answer)						
	OR Soil, Coal, Petrol, Diesel, Minerals, Sunshine, animals, human beings, Plants, Fossil Fuel						
	(1/2 mark for any one relevant answer)						
4.	Give any one method that we can adopt to promote sustainable development.	1					
	Ans: Methods that can be adopted to promote sustainable development are:						
	Protecting and living in harmony with the nature						
	Considering all human beings as equal						
	Promoting good governance						





	Using science and technology responsibly				
	 Creating healthy, social and economically viable society 				
	Organic farming				
	Vermi-composting				
	Rainwater harvesting				
	Proper use of means or resources				
	Development of Positive Attitude and Holistic Approach Towards Conservation				
	Integrated Socio-Economic Development				
	Development based on People's Participation				
	Limited Development				
	Long-Lasting Development				
	• Any one R's (REFUSE, REDUCE, REUSE, RECYCLE, RECOVER AND				
	REPAIR) OR 1U (UPCYCLE)				
	Any one from 17 Sustainable Development Goals (Like Gender equality, Life on				
	land etc.) (1 mark for any one correct answer)				
	OR				
	(1 mark for any other relevant answer) Answer any 1 questions out of the given 2 questions. Each question is of 2 marks.	2×1=2			
5. Differentiate between agricultural entrepreneurship and small-scale entrepreneurship with					
٥.	one point only.				
	one point only.				
	Ans:				
	Ans:				
	Agricultural entrepreneurship Agricultural Entrepreneurship can be defined as being primarily related to the marketing and production of inputs and products used in agricultural activities. OR Agricultural entrepreneurship can be starting industries in which manufacturing, trading, providing services, productions are done on a small scale or micro scale. OR Small-scale entrepreneurship refers to starting industries in which manufacturing, trading, providing services, productions are done on a small scale or micro scale. Small scale entrepreneurship refers to starting industries in which manufacturing, trading, providing services, productions are done on a small scale or micro scale. Small scale entrepreneurship industries in which manufacturing, trading, providing services, productions are done on a small scale or micro scale. Small scale entrepreneurship industries in which manufacturing, trading, providing services, productions are done on a small scale or micro scale. Small scale entrepreneurship industries in which manufacturing, trading, providing industries, are done on a small scale or micro scale. Small-scale entrepreneurship industries in which manufacturing, trading, providing industries, are done on a small scale or micro scale.				
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6.	Agricultural entrepreneurship Agricultural Entrepreneurship can be defined as being primarily related to the marketing and production of inputs and products used in agricultural activities. OR Agricultural entrepreneurship means doing business related to agricultural products. OR Agricultural entrepreneurship means doing business related to agricultural products. OR Agricultural entrepreneurship means doing business related to agricultural products. (I mark each for correct explanation of Agricultural and Small-scale entrepreneurship) In our daily life we can contribute to create a sustainable society by following 4Rs and 1U	2			
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RECYCLE means creating new products from old products. The quality is usually affected and the new product is not of the same quality as the original product. **RECOVER** means a safe and eco-friendly alternative should be used in place of a thing. For example, using a cloth bag instead of a polythene bag. **REPAIR** means to fix things/products instead of buying new ones. **UPCYCLE** allows the scope of human skills to get their due. Any product that is not usable can be upcycled with creativity and innovation. UPCYCLE means reuse (discarded objects or material) in such a way as to create a product of higher quality or value than the original. (2 mark for correct explanation of any one from REFUSE, REDUCE, REUSE, RECYCLE, RECOVER, REPAIR, UPCYCLE) **SECTION—B** 4+8=12 Answer any 04 questions out of the given 06 questions. 1×4=4 is an organization which provides you with access to the Internet via a dial-up or 7. 1 direct or wireless connection. Ans: Internet Service Provider (ISP) / Name of any ISP (Like BSNL, MTNL, Airtel, Jio etc.) (1 mark for correct answer) Name the software or hardware security device that analyzes the network traffic and 8. 1 determine if the traffic should be allowed or not. **Ans:** Firewall (1 mark for correct answer) 9. is the immediate assistance provided to the injured to save life and minimize health 1 loss till the proper medical aid/facility is provided. Ans: First Aid / School Medical Room (1 mark for correct answer) 10. When primary key constraint is applied on one or more column(s), then it is known as 1 **Ans:** Composite Primary Key / Composite key / Primary Key. (1 mark for correct answer) A row that represents a single, data item in a table is known as _____. 11. 1 **Ans:** Record / Tuple / Row (1 mark for correct answer) Explain the term 'sorting'. **12.** 1 **Ans:** Sorting means to arrange the data in either ascending/increasing/A-Z order or descending/decreasing/Z-A order. (1 mark for correct explanation)





		Answer any 4 questions out of	the given 6 questions.	2×4=8		
3.	Ans: Foll	equences, usernames, relative or pet renclude numbers and symbols in passy Jse capital/upper-case and small/lower void using the same password for more control of the same password for the same password for the same password for the same password for the same	ed for creating strong passwords: 4 characters if permitted. 4 characters if permitted. 5 petition, dictionary words, letter or number names etc. 6 words if allowed. 6 per-case letters. 6 ultiple sites or purposes. 7 ic or workmates know you strongly like or 7 pessible. 7 despecial characters	2		
			ch for any four rules) e given for correct example)			
4.						
5.	Differentiate between LAN and WAN with two points only. Ans:					
	Points	LAN	WAN			
	i	Full Form: Local Area Network	Full Form: Wide Area Network			
	ii	Explanation: A network which connects computers and devices in a limited geographical area.	Explanation: A network which connects computers and devices over a broad /large geographical area.			
	iii	Example: Intranet, any network at Room, Home, School, Computer Lab, Office Building or closely positioned group of buildings.	Example: Internet, any network that links across metropolitan, regional or national boundaries.			
	(Any r	positioned group of buildings. (1 mark each for writing any of				

16. Explain any two types of relationship that can be created in tables.

Ans: There are three types of relationships which can be created in tables:

- 1. ONE to ONE
- 2. ONE to MANY or MANY to ONE
- 3. MANY to MANY

One to One Relationship: In this relationship, both the tables must have primary key columns.

OR

In this relationship, primary key column of one table is associated with primary key column of another/associated table.

OR

In this relationship, a record in table A is associated with only one record in table B.

One to Many Relationship: In this relationship, one of the tables must have primary key column. It signifies that one column of primary key table is associated with all the columns of associated table.

OR

In this relationship, one record of parent table is associated with more than one record of another/associated/child table.

OR

In this relationship, one record in table A is associated with several records in table B.

Many to One Relationship: In this relationship, one of the tables must have primary key column. It signifies that all the columns of primary key table are associated with one column of associated table.

OR

In this relationship, more than one record of parent table is associated with one record of another/associated/child table.

OR

In this relationship, several records in table A is associated with one record in table B.

Many to Many Relationship: In this relationship, no table has the primary key column. It signifies that all the columns of primary key table are associated with all the columns of associated table.

OR

In this relationship, a record in table A is associated with several records in table B and vice-versa.

(1 mark each for correct explanation of any two types of relationship)

Note: 1/2 Marks should be awarded for example without explanation.



	Suggestive diagram only: (Full marks should be awarded)									
			One-to-	one:	(1 2 3	d a b c d				
			Many-to	o-one:	(1 2 3	d b c d				
	One-to-many: $\begin{pmatrix} 1 \\ 2 \\ 3 \end{pmatrix} \begin{pmatrix} a \\ b \\ c \\ d \end{pmatrix}$									
			Many-to	o-many:	(1 2 3	d b c				
17.	What is the difference between form and reports?									
	Ans:									
	Form:	A forn	n provides the u	ser a systematic w	-	g information fo	or a database.			
				pecified layout th		iew, enter and	change data			
	directly	in dat	abase objects su	ich as tables.						
	Report	s: A re	eport helps to di	splay the data in a		nanner.				
	A repor	t is us	ed to generate th	he overall work o	utcome in a clea	ar format.				
	A repor	t is an	effective way t	OR o organise and su		ta for viewing o	or printing.			
			(1 mark each	for correct explai	nation of Form	and Report)				
18.	Identify table :	•		names/attributes	and their da	ata types from	m a given	2		
				Table: PL	AYER		1			
	PID		PNAME	RUNS	GENDER	DOB				
	P101		Sachin	13000	M	10/04/2001				
	P102		Kapil	7000	M	12/02/1998				
	P103		Saurabh	12000	M	13/04/2001				
	P104		Virat	12500	M	17/03/2005				
	Ans:	1			ı	ı	1			
	Colu	mns	Data Type							
	PID			CHAR / TEXT						
	PNar	ne.		CHAR / TEXT						
	Gend			CHAR / TEXT						
	Gender CHAR/ VARCHAR/ TEAT									

	Rı	uns	INTEGER / INT / TINYINT / SMALLINT / MEDIUMINT /					
			BIGINT / NUMBER					
	D	ОВ	DATE / DATETIME					
			(1/2 mark each for any two column names					
			and 1/2 mark each for their data type)					
			SECTION—C					
			(COMPETENCY-BASED QUESTIONS)					
	I		Answer any 2 questions out of the given 3 questions.		4×2=8			
19.	from	his uncl	much worried when he came to know that someone has withdrawn a e's bank account. He was not able to understand how this could happyen his ATM card to anyone.	•	4			
	(a) Suggest him a way by which he can be assured that he is doing secured online transaction.							
	(b)		type of software he needs to install in his computer to protect his calware?	computer				
	(c)	Help hi	m to understand about phishing.					
	(d)	He also him.	thinks cookies are harmless. Explain how cookies can also cause	e harm to				
	Ans	:						
	(a)			_				
		He can	OR check if the website uses https protocol.					
	(b)		us/Antispyware software can be installed.					
	(c)		g is the act of acquiring personal/private and sensitive data from	personal				
		comput	ers for use in fraudulent activities.					
			OR					
		Any va	lid example (like mails / message from unknown persons that may	y ask for				
		your cre	edit / debit card details / Aadhaar Card / Personal Details etc.)					
	(d)		s can cause harm to him as they can be tracked by unauthorized use y gain access to his personal information.	ers and				
			(1 mark for correct answer in each part)					



- (a) What is meant by World Wide Web? Also write any two Web browsers name.
- (b) Explain how data is transferred over internet.

Ans:

(a) World Wide Web is a system of interlinked hypertext documents/webpages accessed via the Internet.

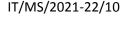
Examples of web browsers are Google Chrome, Mozilla Firefox, Internet Explorer, Microsoft Edge, Netscape Navigator, Operamini, Safari etc.

(1 mark each for correct explanation of World Wide Web)

(1/2 mark each for any two examples of web browser)

- (b) Data is transferred over internet by following steps:
 - Data sent is broken into packets.
 - Each packet is sent from computer to computer until it finds its destination. All packets may not take the same route.
 - At the destination, the packets are examined.
 - If any packets are missing or damaged, a message is sent asking for them to be re-sent. This continues until all packets have been received intact.
 - The packets are now reassembled into their original form.

(1/2 mark each for writing four steps of data transfer)





	4	
7	1	
-	ı	

ADMNO	NAME	GRADE	DOB	MARKS	HOUSE	GENDER
1001	RUPAL	9	10/04/2006	76	GREEN	M
1002	RASHMI	9	08/12/2005	87	RED	F
1003	ARNAV	10	25/05/2004	81	GREEN	M
1004	SUMONA	9	23/08/2005	68	RED	F
1005	ARUN	9	16/07/2005	72	GREEN	M
1006	TIA	9	22/09/2005	91	BLUE	F
1007	ROSHAN	10	26/08/2004	89	BLUE	M

Write SQL Commands:

- a) To display the details of all students of GREEN HOUSE.
- b) To increase the marks by 5 whose ADMNO is 1005.
- c) To display the details of all students whose MARKS are less than 80.
- d) Display the list of all students in descending order of MARKS.

Ans:

a) SELECT * FROM STUDENT WHERE HOUSE = "GREEN";

OR

SELECT ADMNO, NAME, GRADE, DOB, MARKS, HOUSE, GENDER FROM STUDENT WHERE HOUSE = "GREEN";

OR

SELECT * FROM STUDENT WHERE HOUSE LIKE "GREEN";

OR

SELECT * FROM STUDENT WHERE HOUSE IN ("GREEN");

(1/2 mark for SELECT Clause) (1/2 mark for WHERE Clause)

b) UPDATE STUDENT SET MARKS=MARKS+5 WHERE ADMNO=1005;

OF

UPDATE STUDENT SET MARKS=MARKS+5 WHERE ADMNO IN (1005); (1/2 mark for UPDATE Clause) (1/2 mark for WHERE Clause)

c) SELECT * FROM STUDENT WHERE MARKS <80;

OR

SELECT ADMNO, NAME, GRADE, DOB, MARKS, HOUSE, GENDER FROM STUDENT WHERE MARKS <80;

(1/2 mark for SELECT Clause) (1/2 mark for WHERE Clause)

d) SELECT * FROM STUDENT ORDER BY MARKS DESC;

OR

SELECT ADMNO, NAME, GRADE, DOB, MARKS, HOUSE, GENDER FROM STUDENT ORDER BY MARKS DESC;

(1/2 mark for SELECT Clause) (1/2 mark for ORDER BY Clause)

(1 mark each for every correct answer)

Note: Punctuation mark like (""),(''),(;) should be ignored.

21.	For Visually Impaired Students					
	Define the following:					
	a.	Database Management System (DBMS)				
	b.	Primary key				
	c.	Numeric data type				
	d.	Referential integrity				
	Ans:					
	a.	A database management system is a software package with computer programs that				
		controls the creation, maintenance and use of a database.				
	b.	A primary key is a unique value that identifies a row in a table.				
		OR				
		A primary key is a field/column/attribute or set of fields/columns/attributes of				
		which uniquely identifies records/rows/tuples in a table/relation.				
	OR					
		Primary Key = Unique + Not Null				
	c.	Numeric data types are numbers stored in database column. The exact numeric				
		data types are INTEGER, INT, TINYINT, SMALLINT, MEDIUMINT, BIGINT,				
		NUMBER, DECIMAL, NUMERIC, FLOAT, REAL, DOUBLE.				
	d.	Referential integrity is used to maintain accuracy and consistency of data in a				
		relationship.				
		OR				
		Referential integrity is a system of rules that a DBMS uses to ensure that				
		relationships between records in related tables are valid.				
		(1 mark for correct answer in each part)				

* * *

