

**B-17-X**

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[Total No. of Printed Pages : 4

**XIIARJKUT23**

**9117-X**

## INFORMATION PRACTICE

Time : 3 Hours]

[Maximum Marks : 70

1. (i) High data transfer rate of optical fiber is ..... MB per second.

1

~~(ii) What is a Hub ?~~

1

~~(iii) Baud rate is transmission capacity.~~

(True/False)

1

~~(iv) Explain Repeater.~~

2

~~(v) Explain any four advantages of Wi-Fi.~~

2

~~(vi) What is Modem ? Explain any two common types of Modem.~~

3

2. ~~(i) Define Computer Virus.~~

1

~~(ii) A rootkit is a piece of Hardware.~~

(True/False)

1

~~(iii) DOS attack is a cyber attack.~~

(True/False)

1

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Turn Over

(iv) What are Internet Ethics?

(v) What is Snooping?

(vi) Explain Denial of services with the help of any two examples.

3. ~~(i)~~ What is ISP?

(ii) Write two components of e-Mail.

~~(iii)~~ Define Web Server.

~~(iv)~~ Explain static web pages.

~~(v)~~ Explain empty tags in HTML.

~~(vi)~~ What is Web-Browser? Explain its features.

4. ~~(i)~~ We can store control objects in an array. (True/False)

~~(ii)~~ Define String.

~~(iii)~~ Define LTRIM().

~~(iv)~~ Write different forms of IF-statement.

~~(v)~~ Define month() function. Write the syntax of month() function.

~~(vi)~~ Explain Multiple Document Interface.

5. (i) What is RDBMS ?

(ii) What is SQL ? Explain its advantages.

Or

Differentiate between DML and DDL.

4

(iii) Explain ALTER TABLE command with the help of an example and syntax.

Or

Explain the various keys available in SQL.

4

6. (i) What is Co-axial Cable ? Write its *two* advantages.

2

(ii) What is LAN ? Explain four elements of LAN.

Or

What is Topology ? Explain BUS topology with advantages and disadvantages. <https://www.jkb oseonline.com>

4

(iii) What is Infrared Communication ? Discuss any *four* advantages of infrared.

Or

Define Networking. Explain MAN.

4

Turn Over

7. (i) (a) What is body of Loop ?

1

(b) What is Mirroring of Data ?

1

~~(ii)~~ Explain while loop with example, syntax and flowchart.

*Or*

Explain For Loop with example, syntax and flowchart.

4

~~(iii)~~ Explain any *four* components of **DBMS**.

*Or*

Explain two types of Entity Constraints.

4

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**IT/ITES**

**(Vocational)**

**Time : 2.30 Hours]**

**[Maximum Marks : 60**

**(LONG ANSWER TYPE QUESTIONS)**

**5 eac**

1. Discuss Entrepreneurship and qualities of a successful entrepreneur.

*Or*

Discuss about 'Green Jobs'. What are the green jobs available in solid waste management sector ?

2. Discuss 'Software Testing'. Define Unit Testing, Black Box Testing and White Box Testing.

*Or*

Discuss briefly 'Software Engineering' and list the phases of SDLC.

3. What steps should be taken to prevent 'Cyber Crime' ?

Or

What are the positive effects of technology on Health of Humans ?

**(SHORT ANSWER TYPE QUESTIONS)** 3 each

4. What steps should be taken to overcome 'Personality Disorders' ?
5. How can we maintain 'Positive Attitude' ?
6. Discuss about the 'Beta Version of a Software'.
7. What is Air Pollution and jobs available in 'Solar and Wind Energy' Sector ?
8. Write few features of Linux Operating System.
9. What is Cloud Computing ?
10. Define the terms :
  - (a) Copyright
  - (b) Patent
  - (c) Trademark

**(VERY SHORT ANSWER TYPE QUESTIONS)** 2 each

11. What is the difference between 'Listening' and 'Active Listening' ?
12. What do you mean by 'Self-motivation' ?
13. What is the need for 'Software Engineering' ?
14. Write down the Syntax for 'The For Loop' in Python.

15. Name any *two* programming languages used for web development
16. List few features of 'Smart Phone'
17. Name any *two* operating systems used in Mobile Phones.

**(MULTIPLE CHOICE QUESTIONS)**

1 each

18. (i) Libre calc and MS Excel are :

(A) Spread Sheets                      (B) Presentation S/W  
(C) Operating Systems :              (D) None of these

- (ii) A ..... software is used to display information in the form of a slide show.

(A) Spreadsheet                      (B) Web Browser  
(C) Presentation                      (D) Operating System

- (iii) Black box testing is also known as .....

(A) Functional Testing              (B) Complete Testing  
(C) Halfway Testing                  (D) Unit Testing

- (iv) A software engineer is a person who applies the principles of software engineering to design a software (True/False)

- (v) Comments are non-executable statements to a program in Python.

(True/False)

(vi) Repetitive execution of the same block of code over and over is referred to as .....

(A) Scripting

(B) Iteration

(C) Compilation

(D) Debugging

(vii) Which of the following is not a HTML Tag ?

(A) <br>

(B) <body>

(C) <center>

(D) break

(viii) Which of the following HTML Tag is used for unordered list ?

(A) <u>

(B) <tr>

(C) <ul>

(D) <p>

(ix) The SMS stands for :

(A) Smart Mobile Services

(B) Small Mobile Services

(C) Short Message Services

(D) System Message Services

(x) Criminal activity that involves a computer, network devices or a network is called .....

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Roll No.....

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**IT/ITES**

**(Vocational)**

Time : 2.30 Hours]

[Maximum Marks : 60

**SECTION-A**

**(MULTIPLE CHOICE QUESTIONS)**

1 each

1. Which menu option will you click on to insert shapes and images ?

(A) Format

(B) Edit

(C) Tools

(D) Insert

2. The ability to act in a situation before others do is :

(A) Interpersonal skills

(B) Initiative .

(C) Perseverance

(D) None of these

3. Which of these is not a type of testing ?

(A) Black Box

(B) Grey Box

(C) White Box

(D) Red Box

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4. Black box testing is also known as .....
5. Which of these are string functions/methods ?
  - (A) Len( )
  - (B) Upper( )
  - (C) Lower( )
  - (D) All of these
6. Python is case sensitive. (True/False)
7. How to create an ordered list in HTML ?
  - (A) <ul>
  - (B) <href>
  - (C) <ol>
  - (D) <b>
8. HTML is case sensitive. (True/False)
9. Android is based on which language ?
  - (A) Java
  - (B) C
  - (C) C++
  - (D) None of these
10. Full form of IOT .....

## SECTION-B

**(SHORT ANSWER TYPE QUESTIONS-I)**

**2 each**

11. What is Active Listening ? Give an example.
12. What is Software Testing ?

( 3 )

13. Name any *two* loops used in Python.
14. Name *two* advantages of CSS.
15. What is Self-awareness ?
16. What do you mean by Android Development Tools ?
17. Define Apple IOS.

### SECTION-C

#### (SHORT ANSWER TYPE QUESTIONS-II)

3 each

18. What are the various factors that affect active listening ?
19. What are the techniques that help us to maintain a positive outlook in the long-run ? <https://www.jkboseonline.com>
20. What do you mean by Start-ups ?
21. Why there is need of Software Engineering ?
22. What is Machine Learning ?
23. What is Cyber Crime ? Name any *three*.
24. What are the different types of Mobile Applications ?

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( 4 )

**SECTION-D**

**(LONG ANSWER TYPE QUESTIONS)**

5 each

**25. Define Entrepreneur. What are the types of Entrepreneurs ?**

*Or*

**What is SpreadSheet ? What are the steps to save a spreadsheet ?**

**26 Describe any *three* types of Software Testing.**

*Or*

**What do you mean by Beta Version and Final Version of Software ?**

**27. Define the following terms :**

(a) Intellectual Property Rights

(b) Trademark

*Or*

**What are the tips to protect ourselves from Cybercrime ?**

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