

2024 III 01

0930

Seat No.

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Time : 1½ Hours

**ELECTRONICS INSTALLATION
TECHNICIAN**

Subject Code

H	4	0	9	0
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Total No. of Questions : 42 (Printed Pages : 9)

Maximum Marks : 40

INSTRUCTIONS : (i) Write the question number and sub question number clearly.

(ii) All questions are compulsory.

(iii) Figures to the right indicate full marks.

Select and write the most appropriate alternative given below each statement and rewrite complete statement. $6 \times \frac{1}{2} = 3$

1. The best alternative to MS Excel offered by Google Inc. is _____.
 - Google slides
 - Google files
 - Google sheets
 - Google keep

2. Which command in Linux is used to return with the present working directory ?
 - cat
 - cd
 - pwd
 - sort

3. A malicious program is a _____ software.
- Infectious
 - Safe
 - Game
 - Application
4. “Take a step and don’t move.” (Find the type of sentence).
- Declarative sentence
 - Imperative sentence
 - Interrogative sentence
 - Exclamative sentence
5. Hub acts as central device in _____ topology.
- Bus
 - Star
 - Mesh
 - Ring
6. Formulas in Excel start with _____
- /
 - *f*
 - –
 - =

Answer the following questions :

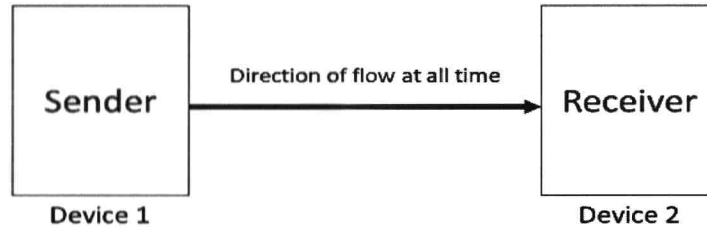
2×2=4

7. Write down any *four* uses of presentation software ?
8. Write down difference between LAN and MAN.

Answer the following questions :

1×3=3

9. In the figure given below, identify and write down the transmission mode and write down *one* example of the same.



10. Mention any *two* challenges faced by an entrepreneur.
11. What is intranet ?

Compare the co-ordination in first pair and complete the second pair by choosing the correct answer from the options given below.

(radio wave, simplex mode, full duplex mode, twisted pair cable)

$$2 \times \frac{1}{2} = 1$$

12. Guided media : Coaxial cable :: Unguided media : _____.
13. Walkie talkie : Half duplex mode :: Mobile phone : _____.

Give single term from the following definition.

$$2 \times \frac{1}{2} = 1$$

(Spam, Virus, Group Policy, PowerShell)

14. Unsolicited email.
15. Feature of the Microsoft Windows Server that controls the working environment of user accounts and computer accounts.

16. Match the following items in column A with correct items in column

B and write the correct pair :

$$2 \times \frac{1}{2} = 1$$

Column A	Column B
(i) Create directory	(a) cat command
(ii) Compress files and folders	(b) mkdir command
	(c) sort command
	(d) tar command

Answer the following questions :

$$2 \times 2 = 4$$

17. What is the use of the following Linux commands :

(i) who (ii) sort (iii) ls (iv) cp

18. Mention any *four* tasks provided by the windows server essentials to manage user accounts.

Answer the following questions :

$$1 \times 3 = 3$$

19. What do you mean by domain controller ?

20. In which layer of OSI does encryption of data happens and write down the full form of OSI.

21. Write down any *two* software packages of presentation.

Select and write the most appropriate alternative given below each statement and rewrite complete statement :

$$6 \times \frac{1}{2} = 3$$

22. _____ is all about keeping one's mind state steady and stable even in most difficult situations.

- Motivation
- Self-management
- Personality disorder
- Time management

23. I was ill _____ I didn't go to work.

- as
- because
- so
- if

24. _____ is an eco-friendly activity.

- Throwing garbage in the river
- Using plastic water bottles
- Using cloth bag for shopping
- Burning plastic

25. _____ protect your computer against malware and cybercriminals.

- MS Excel
- Adobe reader
- MS PowerPoint
- Antivirus

26. Which is a green job in water conservation ?

- water analyst
- designer
- construction worker
- demolition expert

27. Hackers who help in finding bugs and vulnerabilities in a system and don't intend to crack a system are termed as _____ .

- Black Hat Hackers
- White Hat Hackers
- Grey Hat Hackers
- Red Hat Hackers

Answer the following questions :

2×2=4

28. Explain the following network devices :

(a) Repeater (b) Hub.

29. Write down any *four* functions of Anti-Virus software.

Answer the following questions :

1×3=3

30. Name any *two* threats to IT security.

31. Write down any *two* Excel file formats.
32. State the use of sort and filter option in excel.

Compare the co-ordination in first pair and complete the second pair by choosing the correct answer from the options given below :

(Application layer, need, data link layer, wish) $2 \times \frac{1}{2} = 1$

33. Four wheeler car : Desire :: Clothing : _____ .
34. Layer 6 : Presentation layer :: Layer 2 : _____ .

Give single term from the options given below for the following description. $2 \times \frac{1}{2} = 1$

(encryption, authorization, repeater, firewall)

35. Scrambling of data so that only authorized parties can understand the information.
36. Name network security device that monitors incoming and outgoing network traffic and permits or blocks data packets based on a set of security rules.
37. **Answer the following true/false questions :** $2 \times \frac{1}{2} = 1$
- (i) Different domains in a tree structure in windows share a secure connection and trust each other in a hierarchy.
 - (ii) Cat command in Linux is used to copy file from source to destination preserving the same mode.

Answer the following questions :

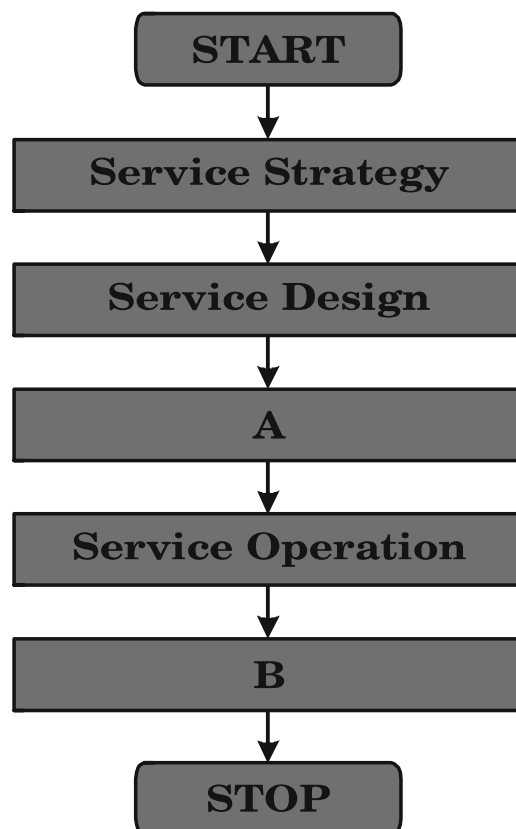
2×2=4

38. Explain the following :

(i) Man in the middle attack.

(ii) DoS attack

39. Define ITIL and write down the missing steps from the given flow chart.



Answer the following :

3×1=3

40. How is Black Hat Hacker different from White Hat Hacker ? (Give *one* point)
41. Name any *two* Anti-virus software.
42. Using formula find the number of links present in the below given network.

