

CBSE | DEPARTMENT OF SKILL EDUCATION

Electronics and Hardware (SUBJECT CODE - 847)

Blue-print for Sample Question Paper for Class XII (Session – 2024-2025)

Max. Time: 3 Hours

Max. Marks: 60

PART A - EMPLOYABILITY SKILLS (10 MARKS):

| UNIT NO. | NAME OF THE UNIT | OBJECTIVE TYPE QUESTIONS | SHORT ANSWER TYPE QUESTIONS | TOTAL QUESTIONS |
|--|----------------------------|--------------------------|-----------------------------|-----------------|
| | | 1 MARK EACH | 2 MARKS EACH | |
| 1 | Communication Skills- IV | 1 | 1 | 2 |
| 2 | Self-Management Skills- IV | 2 | 1 | 3 |
| 3 | ICT Skills- IV | 1 | 1 | 2 |
| 4 | Entrepreneurial Skills- IV | 1 | 1 | 2 |
| 5 | Green Skills- IV | 1 | 1 | 2 |
| TOTAL QUESTIONS | | 6 | 5 | 11 |
| NO. OF QUESTIONS TO BE ANSWERED | | Any 4 | Any 3 | 07 |
| TOTAL MARKS | | 1 x 4 = 4 | 2 x 3 = 6 | 10 MARKS |

PART B - SUBJECT SPECIFIC SKILLS (50 MARKS):

| UNIT NO. | NAME OF THE UNIT | OBJECTIVE TYPE QUESTIONS | SHORT ANS. TYPE QUES.- I | SHORT ANS. TYPE QUES.- II | DESCRIPTIVE/ LONG ANS. TYPE QUESTIONS | TOTAL QUESTIONS |
|--|--------------------------------|--------------------------|--------------------------|---------------------------|---------------------------------------|-----------------|
| | | 1 MARK EACH | 2 MARKS EACH | 3 MARKS EACH | 4 MARKS EACH | |
| i | Computer network essential | 7 | 1 | 1 | 1 | 10 |
| ii | Installation of windows server | 7 | 1 | | 1 | 9 |
| iii | Installation of Linux server | 6 | 1 | | 1 | 8 |
| iv | IT security fundamental | 6 | 1 | 1 | 1 | 9 |
| v | Basics of ITIL V3 | 6 | 1 | 1 | 1 | 9 |
| TOTAL QUESTIONS | | 32 | 5 | 3 | 5 | 45 |
| NO. OF QUESTIONS TO BE ANSWERED | | 26 | Any 3 | Any 2 | Any 3 | 34 |
| TOTAL MARKS | | 1 x 26 = 26 | 2 x 3 = 6 | 3 x 2 = 6 | 4 x 3 = 12 | 50 MARKS |

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ELECTRONICS & HARTWARE (SUBJECT CODE : 847)

Sample Question Paper for Class XII (Session 2024-2025)

Max. Time: 3 Hours

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. | Is it important to clearly communicate instructions, ideas and concepts that can help you find success in any career? State True/ False | 1 |
| ii. | All formulae in Spreadsheet begin with _____ sign (i) & (ii) = (iii) @ (iv) # | 1 |
| iii. | _____ work in collaboration with Green Builders to lay the idea of how the building will look like after its completion. They also provide artistic beauty to buildings to make them look innovative and interesting | 1 |
| iv. | List one benefit of Team Building | 1 |
| v. | _____ is feeling extremely nervous and worried because you believe that other people do not like you or are trying to harm you. (i) Paranoid (ii) Antisocial (iii) Narcissistic (iv) Dependent | 1 |
| vi. | Personality affects all aspects of an individual's performance, Enlist any two personality traits. | 1 |

| Q. 2 | Answer any 5 out of the given 7 questions (1 x 5 = 5 marks) | |
|------|--|---|
| i. | What is the acronym for LAN- A. Local Area Network B. Local Access Networking C. Line and Networking D. Line-less Networking | 1 |
| ii. | What are the three common types of computer networks- A.ROM,MAN,LAN B.RAM,WAN,LAN C.MANLAN,WAN D.None of these | 1 |
| iii. | WAN covers a larger geographical area then MAN- A. True B. False | 1 |
| iv. | Types of networks are categories by their geographical area cover- A. True B. false | 1 |
| v. | Which topology requires a central controller or hub- A. Mesh B.Star C.Bus D.Ring | 1 |
| vi. | Which topology requires a multipoint connection- A.Mesh B.Star C.Bus D.Ring | 1 |
| vii. | A spanning tree is a graph in which there is no- A.Node B.Brach C.loop D.Arc | |

| Q. 3 | Answer any 6 out of the given 7 questions (1 x 6 = 6 marks) | |
|------|---|---|
| i. | What is Power Shell scripting- A.Type the commands in a text editor B.Save the file with ps1 extension C.Execute the file in Power shell D.All of these | 1 |
| ii. | The developer of Power Shell is- a.Microsoft B. Dell C.HP D. None of these | 1 |
| iii. | ACL stands for- | 1 |

| | | |
|------|--|---|
| | A. Access Control List B. Active Control List C. Active Control Lists D. Active Central List | |
| iv. | What are the group scopes of Active directory- A.Universal B. Global C. Domain Local D. All of the above | 1 |
| v. | When you configure loopback in _____mode, the computer configuration GPO settings are appended to the default list of GPOs- A.Replace B. Merge C. Default D. Append | 1 |
| vi. | There are ____group scopes in Active Directory- A.0 B.2 C.1 D.3 | 1 |
| vii. | Which command is used to display and modify the boot configuration data store- A. bcdedit B. bcmod C. edit bcd D. edit boot.ini | |

| | | |
|-------------|---|---|
| Q. 4 | Answer any 5 out of the given 6 questions (1 x 5 = 5 marks) | |
| i. | Identify the command which is used to remove Files- A.Delete B.rm C.dm D.erase | 1 |
| ii. | Which of the following command is used to add a new user to the system- A.using Linexcomf B.adduser C.useradd D.All of the above | 1 |
| iii. | Total primary partition can be exists on one drive is- A.1 B.2 C.16 D.4 | 1 |
| iv. | Identify the command which is used to create Linux file system- A.fsck B.mkfs C. fdisk D.mount | 1 |
| v. | Whar are the core of the Linux Operating System- A.Terminal B.Kernal C. Command D. None of these | 1 |
| vi. | The maximum file size in Linux is 255 bytes- A.True B. False | 1 |

| | | |
|-------------|--|---|
| Q. 5 | Answer any 5 out of the given 6 questions (1 x 5 = 5 marks) | |
| i. | Who is the father of computer security- A.August kerckhofts B.Robert C. Bob Thomas D. Charles | 1 |
| ii. | Cyber security provides security against what- A. Against Malware B. Against cyber terrotists C. Defends a device from threat D. All mentioned above | 1 |
| iii. | Which will not harm computer resource- A. Fire wall B. Virus C.Trojan horse D. None of these | 1 |
| iv. | Topology no larger protected by copyright, available to everyone is considered to be- A. Proprietary B. Open C. Experimental D. In the public domain | 1 |
| v. | All of the following are example of real security and privacy risk except- A. Hackers B. Spam C. Viruses D. Identity | 1 |
| vi. | Verification of a login name and password is known as- A.Configuration B. Asccessibility C. Authentication D. Logging in | 1 |

| | | |
|-------------|---|---|
| Q. 6 | Answer any 5 out of the given 6 questions (1 x 5 = 5 marks) | |
| i. | Which of the following is not a recognized source of IT best practices according to ITIL- A. Proprietary knowledge B. Industry standards C. Training D. Auditors | 1 |
| ii. | ITIL identifies three areas that will be used by customers in their understanding of value. which of these is not one of them- | 1 |

| | | | |
|------|--|--|---|
| | A. The business outcomes achieved C. The customers perception | B. The customers preferences D. The service providers preferences | |
| iii. | Which of the following is a reason an organization might want to adopt ITIL best practices- A. Advice on the technical specification of infrastructure B. Advice on business stratagem C. Development of programming techniques D. Management of IT services and budgetary controls | | 1 |
| iv. | The performance ____required to identifying service requirement – A.Measuremets and matrices B.Maintainces C.Skill D.Ability | | 1 |
| v. | “A set of specialized organizational capabilities for providing value of customers in the form of services”is the official definition of- A.ITIL B.ITSM C.RACI D.Service quality | | 1 |
| vi. | Which perspective of ITSM takes into consideration the “soft” side of IT- A.Partners/suppliers perspective B. Products/Technology perspectives C. People perspective D. Process perspective | | 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.

| | | |
|-------|--|---|
| Q. 7 | What are the different types of communication? | 2 |
| Q. 8 | Self-Motivation is significant in building one’s personality. Comment | 2 |
| Q. 9 | What is Cell referencing in a spreadsheet? | 2 |
| Q. 10 | Rohan has a successful startup company. According to him ‘Decision Making is considered to one of the important entrepreneurial competency’. Do you agree with Rohan’s opinion? Justify. | 2 |
| Q. 11 | What is the role of Water Quality technician? | 2 |

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

| | | |
|-------|--|---|
| Q. 12 | What is client And Server Network? | 2 |
| Q. 13 | Define AD and DS? | 2 |
| Q. 14 | What is LILO? | 2 |
| Q. 15 | What is Antimalware? | 2 |
| Q. 16 | ITIL V3 framework consists of which processes? | 2 |

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

| | | |
|-------|---|---|
| Q. 17 | How many types of networks? Explain each categories ? | 3 |
| Q. 18 | Difference between ITIL V2 and ITIL V3? | 3 |
| Q. 19 | Describe Port Scanning? | 3 |

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

| | | |
|-------|---|---|
| Q. 20 | How many types of Data transmission mode? Explain each Categories ? | 4 |
| Q. 21 | Explain benefits and limitations of Domain controller? | 4 |
| Q. 22 | Explain the three main parts of Linux? | 4 |
| Q. 23 | Explain the Function of software firewall and hardware firewall? | 4 |
| Q. 24 | Explain benefits of IT problem management? | 4 |