

CBSE | DEPARTMENT OF SKILL EDUCATION

ELECTRONICS AND HARDWARE (SUBJECT CODE - 847)

Blue-print for Sample Question Paper for Class XI (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-III	1	1	2
2	Self-Management Skills-III	1	1	2
3	ICT Skills -III	2	1	3
4	Entrepreneurship Skills -III	1	1	2
5	Green Skills -III	1	1	2
TOTAL NO. OF QUESTIONS		6	5	11
NO. OF QUESTIONS TO BE ANSWERED		4	3	7
TOTAL MARKS		1X4 = 4	2X3 = 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	
1	Basic Electronics and Computer Fundamentals	8	2	1	1	12
2	Installation and configuration of Operating System	8	1	1	1	11
3	Installation of Computer Hardware.	7	1	-	2	10
4	Computer Assembly and Disassembly	8	1	1	1	11
TOTAL NO. OF QUESTIONS		31	5	3	5	44
NO. OF QUESTIONS TO BE ANSWERED		26	3	2	3	34
TOTAL MARKS		1X26=26	2X3=6	3X2=6	4X3=12	50 MARKS

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Sample Question Paper for Class XI (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)	By which action can a sender send his or her messages? (a) Listening (b) Speaking (c) Sleeping (d) None of the above	1
ii)	Which of the following can help you manage time better? (a) Talking to friends (b) Making a to-do-list (c) Making sure we don't miss our playtime (d) Watching a favourite movie	1
iii)	Which shortcut key is used to create a new document? (a) Ctrl+ c (b) Ctrl + n (c) Ctrl + m (d) Ctrl + d	1
iv)	A business plan is important for an entrepreneur. Some of the reasons why a business plan should be prepared are as follows: (a) Estimating the money required to be spent (b) Estimating the quantity of material required (c) Standing out (d) All of the above	1
v)	What is the shortcut to print a document? (a) FILE > EXPORT (b) FILE > SEND (c) FILE > PRINT	1
vi)	Which of the following stakeholders makes policies for a green economy? (a) Non-government organisations (b) Scientific community (c) Government (d) Private sector	1
Q.2 Answer any 5 out of the given 6 questions (1 x 5 = 5 marks)		
i)	Which of the following is a semiconductor material? (a) Silicon (b) Germanium (c) Both A and B (d) None of these	1
ii)	Which operating system allows multiple users simultaneously? (a) Multi-user OS (b) Multi-tasking OS (c) Real-time OS (d) All of these	1
iii)	When a computer starts, operating system checks all the _____ and loads their drivers so a user can work properly. (a) programs (b) devices (c) drivers (d) network	1
iv)	Instructions needed when starting the computer are stored in_____. (a) the motherboard (b) cache (c) ROM (d) RAM	1

v)	Diode is reverse biased when _____. (a) cathode is connected to the positive and anode is connected to the negative terminal of the battery (b) cathode is connected to the negative and anode is connected to the positive terminal of the battery (c) no specific polarity is required (d) None of these	1
vi)	Which of the following pointing device is used in laptops? (a) Touchpoint (b) Touchball (c) Touchway (d) Touchpad	1
Q.3 Answer any 5 out of the given 6 questions (1 x 5 = 5 marks)		
i)	Which of the following is the second-largest measurement of RAM? (a) Terabyte (b) Megabyte (c) Byte (d) Gigabyte	1
ii)	The SI unit for measuring the rate of flow of electric charge is _____ (a) volt (b) ampere (c) Ohm (d) None of the above	1
iii)	What is the core of the Linux operating system? (a) Vi Editor (b) Command (c) Line Terminal (d) Kernel	1
iv)	Which of the following are in the ATX family of motherboards? (a) ATX (b) Mini-ATX (c) Flex-ATX (d) None of these	1
v)	Which is the most popular operating system? (a) UNIX (b) Microsoft Windows (c) Linux (d) DOS	1
vi)	1. Which is the most common type of RAM architecture used by laptops? (a) RIMM (b) DIMM (c) USDRAM (d) SODIMM	1
Q.4 Answer any 5 out of the given 6 questions (1 x 5 = 5 marks)		
i)	Which of these is a not a computer manufacturer? (a) Microsoft (b) IBM (c) Apple (d) Sun	1
ii)	A three terminals semiconducting device is _____. (a) Diode (b) Transistor (c) Resistors (d) Capacitor	1

iii)	Component most likely used for computer static RAM technology is _____. (a) primary memory (b) secondary storage (c) cache memory (d) CPU registers	1
iv)	The CPU is also known as _____. (a) the brain (b) the processor (c) the central processing unit (d) All of the above.	1
v)	Which was the first microprocessor? (a) Intel 4004 (b) Intel 8088 (c) Intel 8086 (d) Intel	1
vi)	Transformer works on _____. (a) AC (b) DC (c) Both AC and DC (d) None of these	1
Q.5 Answer any 6 out of the given 7 questions (1 x 6 = 6 marks)		
i)	Capacitor stores energy in the form of _____ field. (a) Magnetic field (b) Electric field (c) Both A and B (d) None of the above	1
ii)	What is an operating system? (a) Collection of programs that manages hardware resources (b) System service provider to the application programs (c) Link to interface the hardware and application programs (d) All of the mentioned	1
iii)	Which one provides command interpreter environment? (a) kernel (b) shell (c) CPU (d) hardware	1
iv)	The main circuit board in the computer is called _____. (a) RAM (b) the motherboard (c) the bus (d) the CPU	1
v)	The CPU fan (a) is self-powered (b) is powered directly by the power supply (c) is plugged into the motherboard for power (d) is not powered, runs on gravity	1
vi)	UPS stands for _____. (a) universal power supply (b) uninterrupted power supply (c) unique power supply (d) united parcel service	
vii)	The part of the computer used for calculations is _____. (a) RAM (b) the CPU (c) the bus (d) the motherboard	1
Q.6 Answer any 5 out of the given 6 questions (1 x 5 = 5 marks)		

i)	Which of the following is example of primary memory - (a) RAM (b) ROM (c) Both A and B (d) Memory card	1
ii)	Which directory contains configuration files in Linux? (a) /etc/ (b) /bin/ (c) /dev/ (d) /root/	1
iii)	Which key combination is used to minimise all open windows and displays on the screen? (a) Alt+M (b) Shift+M (c) Windows Key+D (d) Ctrl+D	1
iv)	Which is the core of the operating system? (a) shell (b) kernel (c) command (d) script	1
v)	What type of compound is used to maintain heat distribution between the CPU and heat sink? (a) Silicon spray (b) Graphite paste (c) Glue (d) Thermal compound	1
vi)	The device through which data and instructions are entered into a computer is _____. (a) software (b) output device (c) input device (d) memory	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 is effective communication?	2
Q.8	Write the Importance of Personal Hygiene.	2
Q.9	What is Sustainable Development?	2
Q.10	What do you mean by Manufacturing Business?	2
Q.11	How to insert a picture in Word?	2

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

Q.12	When does a diode work as an open switch?	2
Q.13	What is a device driver?	2
Q.14	What is PCI?	2
Q.15	What is the function of SMPS?	2
Q.16	What is anti-static mat?	2

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

Q.17	What are the Windows 10 System Requirements?	3
Q.18	Write the different steps for the installation of RAM.	3
Q.19	What is an Integrated Circuit?	3

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

Q.20	What is a Hard Drive? Write the steps to install HDD.	4
Q.21	Write the features of UBUNTU Linux.	4
Q.22	What is a controller?	4
Q.23	Three dimensional (3D) printers	4
Q.24	Explain DRAM.	4