

CBSE | DEPARTMENT OF SKILL EDUCATION

ELECTRONICS & HARDWARE (SUBJECT CODE- 847)

Blueprint for Sample Question Paper for Class XI (Session 2022-2023)

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	2	1	3
3	Information and Communication Technology Skills-III	1	1	2
4	Entrepreneurial Skills-III	1	1	2
5	Green Skills-III	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	
1.	Basic Electronics and Computer Fundamentals.	11	2		1	14
2.	Installation and Configuration of Operating System.	6		1	1	8
3.	Installation and Configuration Computer Hardware.	11	2	1	2	16
4.	Computer Assembly and Disassembly	4	1	1	1	7
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 & HARDWARE (SUBJECT CODE-487)

Sample Question Paper for Class XI (Session 2022-2023)

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.

iv	Which function key is pressed during reboot to enter in safe mode of Windows 10? (i)F8 (ii) F2 (iii) F1 (iv) F9	1
v	What is GUI?	1
vi	The serial port are also known as a DB-19. (True/False)	1
vii	A 32-bit CPU can address _____ memory locations.	

Q. 3	Answer any 6 out of the given 7 questions (1 x 6 = 6 marks)	
i	RAM is volatile memory because_____ (i) It can be used for both read and write (ii) Any location can be accessed directly into it (iii) Continuous power supply is required for it to retain data (iv) It does not require continuous power supply	1
ii	Magnetic disk is a sequential access device. (True/False)	1
iii	Crimping tools is used for the joining of stripped wire and special _____	1
iv	UPS stands for _____ (i) Universal power supply (ii) Uninterrupted power supply (iii) Unique power supply (iv) United parcel service	1
v	Diode has _____terminals.	1
vi	The _____ unit is used to perform the arithmetic operations.	1
vii	What is the ohmic value for the colour code of Orange, Orange, Orange? (i) 22 K Ω (ii) 33 k Ω (iii) 3300 Ω (iv) 440000 Ω	1

Q. 4	Answer any 5 out of the given 6 questions (1 x 5 = 5 marks)	
i	State the long form of the following: (i) EDVAC, (ii) LSI	
ii	The smallest unit of an output device display is called a _____ (i) Pixel (ii) Picture unit (iii) VDT (iv) Monitor	
iii	A multi-processing OS supports running a program in more than one _____.	
iv	Without a product key, you cannot install windows 10. (True/False)	
v	Linux is _____ sensitive.	

vi	The power supply provides power for _____. (i) Only components in the computer. (ii) Only the PC peripherals (iii) Both the components in the computer and many peripherals (iv) Many of the PC peripherals
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Q. 5	Answer any 5 out of the given 6 questions (1 x 5 = 5 marks)	
i	Heat sinks with a single fan are called _____.	1
ii	Which is fastest data storage in a computer? (i) Registers (ii) RAM (iii) HDD (iv) ROM	1
iii	The hard disks record information by _____ (i) Centrifugation (ii) Propagation (iii) Gravitation (iv) Magnetisation	1
iv	A punch down tool is used to terminate wire into termination _____.	1
v	Disassembling is the process of breaking down a device into _____ parts.	1
vi	Transformer works on _____ voltage.	1

Q. 6	Answer any 5 out of the given 6 questions (1 x 5 = 5 marks)	
i	System structure of Linux is _____ (i) Microsoft Windows (ii) UNIX (iii) Window Vista (iv) Monolithic Kernel.	1
ii	Supercomputer has highest processing speed after mainframe with multiprocessing technology. (True/False)	1
iii	The credit have a _____ strip.	1
iv	A _____ is a collection of Transistors.	1
v	The Clock speed of recent processor is measured in _____. (i) MHz (ii) KHz (iii) GHz (iv) Hz	1
vi	The data in ROM can only be read by _____.	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	Write down any four factors affecting perspectives in communication?	2
Q. 8	What are the benefits of working in a Team?	2
Q. 9	What is the advantage of using a header or a footer in a word processor documents?	2
Q. 10	What are the different ways in which an entrepreneur can think to solve problems?	2
Q. 11	List all sectors of the green economy that affect your daily life.	2

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

Q. 12	Write any two applications of Transistors?	2
Q. 13	Write any two function of Arithmetic Logic Unit (ALU)?	2
Q. 14	Write two differences between CMOS and BIOS?	2
Q. 15	Name the four registers in a CPU?	2
Q. 16	What are Hardware Tools?	2

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

Q. 17	Describe different types of Operating Systems?	3
Q. 18	(i) Why is memory important in a computer? (ii) What is RAM?	(1+2)
Q. 19	(i) Define Hand Tools? (ii) List the steps for installing a new processor.	(1+2)

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

Q. 20	What is the meaning of Volatile memory? Also give an example of Volatile memory. Differentiate between RAM and ROM	4
Q. 21	List various types of operating systems? What is Linux Kernel? What is the advantage of open source?	4
Q. 22	What are the major Components of a CPU? What are the basic task performed by a CPU? Why registers are used in CPU?	4
Q. 23	(i) What are the physical components of a HDD? (ii)What are the logical components of a HDD?	(2+2)
Q. 24	(i) What are the categories of hardware Tools? (ii)What are the necessary tools and accessories required for assembly or disassembly?	(2+2)