CBSE | DEPARTMENT OF SKILL EDUCATION

Electronics and Hardware (SUBJECT CODE 847)

Blue-print for Sample Question Paper for Class XI (Session -2023-2024)

Max. Time: 3 Hours **Max. Marks: 60**

PART A - EMPLOYABILITY SKILLS (10 MARKS):

UNIT NO.	NAME OF THE UNIT	OBJECTIVE TYPE QUESTIONS 1 MARK EACH	SHORT ANSWER TYPE QUESTIONS 2 MARKS EACH	TOTAL QUESTIONS
1	Communication Skills- III	1	1	2
2	Self-Management Skills- III	2	1	3
3	ICT 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 1 MARK EACH	SHORT ANS. TYPE QUES.- I 2 MARKS EACH	SHORT ANS. TYPE QUES.- II 3 MARKS EACH	DESCRIPTIVE/ LONG ANS. TYPE QUESTIONS 4 MARKS EACH	TOTAL QUESTIONS
1.	Basic Electronics and computer Fundamentals.	11	2	0	1	14
2.	Installation and configuration of operating system.	6	0	1	1	8
3.	Installation and configuration of 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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Sample Question Paper for Class XI (Session 2023-2024)

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.	What is the purpose of communication? 1)Inform 2) influence 3) Share thoughts, ideas, feelings 4) All of the above.	1
II.	In SMART goals, what does "S" stands for?	1
III.	What is 'Time Management'?	1
IV.	Undo, cut, copy and paste are _____ commands. 1)View 2) Edit 3) Styles 4)File	1
V.	An entrepreneur always has to think about what the customer wants. (T/F)	1
VI.	What is the main role of the government in a green economy? 1)Making Policies 2)Making inventions 3) Creating awareness 4) using new technologies.	1

Q. 2	Answer any 5 out of the given 7 questions (1 x 5 = 5 marks)	
I.	A Transistor is a _____ operated device. 1. current 2. Voltage 3.current and voltage both 4.none of the above	1
II.	Which of the following statement specifies ohms Law? 1. V= I/R 2. R=VI 3. V= I*R 4. I= V/R	1
III.	_____ memory is placed between the CPU and the main memory. 1. virtual memory 2. ROM 3.RAM 4. Cache	1
IV.	Transformer ratings are given in _____ 1. KVA 2. HP 3. KVAR 4. KW	1
V.	In LCD, L stands for _____. 1. liquid 2.light 3.limit 4.long	1
VI.	Silicon is _____ material.	1
VII.	Printers are example of _____output device.	1

Q. 3	Answer any 6 out of the given 7 questions (1 x 6 = 6 marks)	
I.	Which device allows you to enter data and instructions into a computer? 1. input device 2. Output device 3. ALU 4. CPU	1
II.	Unit of capacitor is _____?	1
III.	Resistance limits the current. True/ False	1
IV.	Full form of SMPS_____.	1
V.	_____create a link between a user and the computer. 1.Device driver 2.utilities 3.operating system 4.Image view	1
VI.	In multi-programming OS, two or more programs are executed simultaneously by _____ processor.	1
VII.	The Kernel is the core of _____.	1

Q. 4	Answer any 5 out of the given 6 questions (1 x 5 = 5 marks)	
I.	Which of the following feature is available only in 64-bit? 1. client hyper-v 2. Direct Access 3. Secure boot	1
II.	Antivirus and anti-malware both programs scan for the same thing but they work in a similar way. True/false	1
III.	Ubuntu is a/an _____ source operating system.	1

IV.	Hard Disk Drivers are considered _____ storage 1. flash 2. Non-volatile 3. Temporary 4. non-permanent	1
V.	_____ contains a volatile chip that temporarily store data or instructions. 1. CPU 2. ROM 3. RMA 4. RAM	1
VI.	ROM is volatile. True/False	1

Q. 5	**Answer any 5 out of the given 6 questions (1 x 5 = 5 marks)**	
I.	Hard Disk are organized as- 1. cylinders 2. Tracks 3. Cylinders and tracks 4. Master boot record	1
II.	Which of the following is not a part of the CPU of a computer 1. ALU 2. Control unit 3. Main memory 4. Mouse	1
III.	The part of computer used for calculation is_____.	1
IV.	Data for the hard disk type is stored in 1. main memory 2. Partition table 3. CMOS RAM Set up 4. Boot recorder	1
V.	BIOS is a system software, which is stored in _____ located on the motherboard. 1. DRAM 2. SRAM 3. CACHE MEMORY 4.ROM	1
VI.	Which of the following is not a system bus? 1. Address bus 2. Data bus 3.control bus 4.memory bus	1

Q. 6	**Answer any 5 out of the given 6 questions (1 x 5 = 5 marks)**	
I.	The main circuit board in the computer is called _____.	1
II.	Hard Disk can have _____ heads. 1. one 2. Two 3.more than two 4.only one	1
III.	The anti-static wrist strap _____the computer equipment when grounded to a computer chassis .	1
IV.	UPS provides a consistent quality of power when power supply goes _____.	1
V.	The CPU, RAM and expansion cards are directly attached to the _____.	1
VI.	What type of compound is used to maintain heat distribution between CPU and heat sink? 1. Silicon Spray 2. Graphite paste. 3. Glue 4.Thermal compound.	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 different types of verbal communication with examples of each.	2
Q. 8	What is goal setting?	2
Q. 9	List two advantages of using a word processor to write a letter.	2
Q. 10	i)Who is an entrepreneur? ii) What values does a successful entrepreneur have?	(1+1)=2
Q. 11	Identify important sectors of a green economy.	2

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

Q. 12	What is a semiconductor device? Give two examples of semiconductor devices.	(1+1)=2
Q. 13	Define Hardware & Software?	(1+1)=2

Q. 14	Write two differences between RAM &ROM?	2
Q. 15	What is Hard Disk Drive?	2
Q. 16	What is the necessity of applying thermal Solution on the processor? what is ESD?	(1+1)=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 major components of the CPU?	3
Q. 18	What are the major components of an operating system? Define Real-time operating system.	(1+2)=3
Q. 19	Write three basic safety guidelines for installing of computer and peripherals?	3

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

Q. 20	Explain the Input-Process-Output concept of a computer?	4
Q. 21	i. What is the windows 10 system requirement? ii. Write three features of Ubuntu Linux?	(2+2)=4
Q. 22	Explain the function of a CPU?	4
Q. 23	Explain the working principle of Hard Disk?	4
Q. 24	Define: i. ESD tools ii. Diagnostic tools	(2+2)=4