*Total number of printed pages : 1* 

NB-N/E&H(V)

## 2021

CLASS – IX (Phase I)

## **ELECTRONICS & HARDWARE (Vocational)**

Total marks : 25

## **General instructions :**

- Approximately 8 minutes is allotted to read the question paper and revise the answers. i)
- All questions are compulsory except Q. nos. 10 to 12 where general option is given. ii)
- The question paper consists of 12 questions. iii)
- Marks allocated to every question are indicated against it. iv)

## N.B: Check to ensure that all pages of the question paper are complete as indicated on the top left side.

1.	Choose the correct answer from the given alternatives:				5x1=5
i.	Whic	Which of the following methods is used to receive information from the sende			
	through a letter				
	(a)	listening	(b)	speaking	
	(c)	reading	(d)	writing	
ii.	Which of the following is a quality of a self-confident person?				
	(a)	patience	(b)	self belief	
	(c)	passion	(d)	intelligence	
iii.	What	is the SI unit of electric curr			
	(a)	ohm	(b)	ampere	
	(c)	watt	(d)	volt	
iv.	v. How many terminals does a transistor have?				
	(a)	one	(b)	two	
	(c)	three	(d)	four	
v.					
	(a)	Α	(b)	Hz	
	(c)	V	(d)	%	
An	swer t	he following questions in or	ne word or o	one sentence:	
2.	What is visual communication?				
3.	Stat	e ohms law.			1
4.	What is diode?				1
5.	Name any two electrical measuring instruments.				1
An		he following questions in 2(	0		
6.	Wh	at is self management? Write	any two sel	f management skills.	1+1=2
7.	10 lamps are connected in series. Each lamp has 5v. Find the total voltage. 2				
8.		Draw the symbol of PNP and NPN transistor.			
9.	State any two advantages of multimeter.				2 2
		•		60-100 words:	_
10.	Answer <i>any two</i> from the following questions in 60-100 words: 0. Explain Kirchhoff Voltage Law with the help of diagram. 4				
11.	-	Explain the principle of a transformer with the help of a diagram.			
12.					4

\*\*\*\*\*\*

Time : 1 hour