Total number of printed pages : 2

2020

CLASS - IX

ELECTRONICS & HARDWARE (Vocational)

Total marks : 50

General instructions :

- All questions are compulsory except Q. nos. 18 to 23 where general option is given. i)
- ii) The question paper consists of 23 questions.
- *iii)* Marks allocated to every question are indicated against it.

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

1.	Choo	ose the correct answer from t	he give	en alternatives:	10x1=10	
i.	Which	Which of the following connection is used for domestic wiring?				
	(a)	Open	(b)	Parallel		
	(c)	Closed	(d)	Series		
ii.	What is the S.I unit of Resistance?					
	(a)	Watt	(b)	Ampere		
	(c)	Power	(d)	Ohms		
iii.	How n	nany terminal electronic compone	ents a di	ode is said to have?		
	(a)	2	(b)	3		
	(c)	4	(d)	5		
iv.						
	(a)	magnetic flux	(b)	primary winding		
	(c)	mutual induction	(d)	electromagnetic induction		
v.	Multi-Meter is also known as					
	(a)	Tester	(b)	Di-tester		
	(c)	Dual tester	(d)	Multi-tester		
vi.	Who was the first person to successfully used chlorine to disinfect water supply?					
	(a)	John Snow	(b)	G.W Fuller		
	(c)	William Soper	(d)	Francis Bacon		
vii.	Straight body posture is seen as					
	(a)	tiredness	(b)	nervousness		
	(c)	boastfulness	(d)	confidence		
viii.	iii. Planning concrete goals to be accomplished within a set timeframe.					
	(a)	Time management	(b)	Goal setting		
	(c)	Team work	(d)	Positive thinking		
ix.	A bold project that is taken to fulfil the needs of society which no one has ever					
	addres	sed is known as				
	(a)	business	(b)	entrepreneurship		
	(c)	enterprise	(d)	opportunity		
X.	Which of the following is an example of non renewable resources?					
	(a)	Coal	(b)	Solar		
	(c)	Wind	(d)	Water		

NB-N/E&H(V)

Time : 2 hours

Ansv	wer the following questions in one word or one sentence:	
2.	What is a rectifier?	1
3.	What does LED stand for?	1
4.	What is TDS meter used for?	1
5.	Who are considered the father of microscopy?	1
6.	What is meant by water purification?	1
7.	Write any two diseases caused by water pollution.	1
8.	State any two qualities of successful entrepreneurs.	1
9.	What is recycling?	1
Ansv	wer the following questions in 20-50 words:	
10.	Find the equivalent resistance, if three resistances of 10 Ohm each are connect	cted
	in a series.	2
11.	Mention any four basic electronic components.	2
12.	Name any two types of diode and draw their symbols.	1+1=2
13.	State any two advantages of digital meter over analog meter.	2
14.	What is desoldering? Name any two desoldering tools.	1+1=2
15.	Write any two steps of activating the filter.	2
16.	Mention any four basic principles of professional communication skills.	2
17.	List any four self management skills.	2
Ansv	wer <i>any four</i> from the following questions in 60-100 words:	
18.	Explain Kirchhoff Current Law with the help of diagram.	2+2=4
19.	Draw the parallel and series circuit and explain it.	2+2=4
20.	What is a capacitor? Briefly explain the two types of capacitor.	1+3=4
21.	Name any four parts of a multi-meter and write their functions.	4
22.	Explain any two techniques of water purification.	4
23.	Explain any four uses of internet in our daily life.	4
