



Republic of the Philippines
Department of Education
Region III
Division of Bulacan
STA. MONICA NATIONAL HIGH SCHOOL
Final Examination
1st Sem 2018 - 2019
TVL- EPAS- 12



Names: _____ Scores: _____

Grade/Section: **12 – Jerusalem / EPAS** Date: _____

Multiple Choice: Choose the letter of the correct answer. **STRICTLY NO ERASURE.**

Directions: Choose the letter of the correct answer. Encircle the letter of your choice. (1pt- each)

1. It refers to an electronic device with two wires or terminals, which allow the flow of current in only one direction.
a. **Diode**
b. Resistor
c. Capacitor
d. Transformer
2. It is an electronic device for increasing the amplitude of electrical signals, used chiefly in sound reproduction.
a. Radio
b. **Amplifier**
c. Television
d. Speaker
3. It is a device that use to convert AC voltage to a low DC voltage.
a. Varactor
b. Zener
c. Signal
d. **Rectifier**
4. It is a device that converts electric signals to audible sound.
a. **Speaker**
b. Transformer
c. Microphone
d. Transistor
5. It is an apparatus for reducing or increasing the voltage of an alternating current.
a. Transistor
b. Resistor
c. **Transformer**
d. Capacitor
6. It is an electroacoustic transducer that converts sound energy into electric energy.
a. Speaker
b. Transformer
c. **Microphone**
d. Transistor
7. It is an electronic component that is used to vary the amount of current that flows through a circuit.
a. **Variable Resistor**
b. Variable Capacitor
c. Selector switch
d. Inductor
8. It is a device that supplies electric power to an electrical load.
a. **Power Supply**
b. Resistor
c. Converter circuit
d. Capacitor
9. A type of circuit in which current flows only one direction or there is only one path through which electric current flow.
a. parallel circuit
b. short circuit
c. open circuit
d. **series circuit**
10. To get an accurate resistance reading we need to adjust the pointer in:
a. zero resistance
b. mid resistance
c. **infinite resistance**
d. high resistance
11. It is the movable part of electrical motor that rotates.
a. **Electric motor**
b. Rotor
c. Selector switch
d. Stator
12. How is direct current (DC) flows in a circuit?
a. **In one direction**
b. in three direction
c. in two direction
d. in four direction
13. FM stands for:
a. Fine Modulation
b. Frequency Modulator
c. **Frequency Modulation**
d. Fine Modulator
14. Before checking any capacitor we:
a. charge the capacitor
b. **discharge the capacitor**
c. reverse the polarity of the meter
d. all of the above
15. Before using the multi - tester for measuring resistance we need to:
a. **calibrate the unit**
b. clean the unit
c. connect its test probes
d. set in DC range
16. If the arrow of a transistor symbol is pointing outward it tells us that the transistor is:
a. PNP
b. **NPN**
c. Bipolar
d. Injunction
17. It is a component in an electric or electronic circuit that possesses inductance.
a. Transformer
b. Inductor
c. Capacitor
d. Resistor

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Table of Contents Grade1final Exam 2014 Paperessay

1. Understanding the eBook Grade1final Exam 2014 Paperessay
 - The Rise of Digital Reading Grade1final Exam 2014 Paperessay
 - Advantages of eBooks Over Traditional Books
2. Identifying Grade1final Exam 2014 Paperessay
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Grade1final Exam 2014 Paperessay
 - User-Friendly Interface
4. Exploring eBook Recommendations from Grade1final Exam 2014 Paperessay
 - Personalized Recommendations
 - Grade1final Exam 2014 Paperessay User Reviews and Ratings
 - Grade1final Exam 2014 Paperessay and Bestseller Lists
5. Accessing Grade1final Exam 2014 Paperessay Free and Paid eBooks
 - Grade1final Exam 2014 Paperessay Public Domain eBooks
 - Grade1final Exam 2014 Paperessay eBook Subscription Services
 - Grade1final Exam 2014 Paperessay Budget-Friendly Options

6. Navigating Grade1final Exam 2014 Paperessay eBook Formats
 - ePub, PDF, MOBI, and More
 - Grade1final Exam 2014 Paperessay Compatibility with Devices
 - Grade1final Exam 2014 Paperessay Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Grade1final Exam 2014 Paperessay
 - Highlighting and Note-Taking Grade1final Exam 2014 Paperessay
 - Interactive Elements Grade1final Exam 2014 Paperessay
8. Staying Engaged with Grade1final Exam 2014 Paperessay
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Grade1final Exam 2014 Paperessay
9. Balancing eBooks and Physical Books Grade1final Exam 2014 Paperessay
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Grade1final Exam 2014 Paperessay
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Grade1final Exam 2014 Paperessay
 - Setting Reading Goals Grade1final Exam 2014 Paperessay
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Grade1final Exam 2014 Paperessay
 - Fact-Checking eBook Content of Grade1final Exam 2014 Paperessay
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

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 $2 \text{ CO}_2(\text{g}) + \text{H}_2\text{O}(\text{g}) + \text{C}_2\text{H}_2(\text{g}) \rightarrow \text{O}_2(\text{g}) + \text{C}_2\text{H}_6(\text{g})$ $\Delta h = 94.5 \text{ kJ}$
 $\text{H}_2\text{O}(\text{g}) + \text{H}_2(\text{g}) + \frac{1}{2}\text{O}_2(\text{g}) \rightarrow \text{C}_2\text{H}_6(\text{g}) + \text{O}_2(\text{g})$ $\Delta h = 71.2 \text{ kJ}$
 $\text{CO}_2(\text{g}) + 3 \text{H}_2\text{O}(\text{g}) \rightarrow \text{C}_2\text{H}_6(\text{g})$ $\Delta h = 283 \text{ kJ}$

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 $\text{C}_2\text{H}_4(\text{g}) + 3 \text{O}_2(\text{g}) \rightarrow 2 \text{CO}_2(\text{g}) + 2 \text{H}_2\text{O}(\text{l})$ $\Delta h = 1411 \text{ kJ/mole}$
 $\text{C}_2\text{H}_6(\text{g}) + 7 \text{O}_2(\text{g}) \rightarrow 2 \text{CO}_2(\text{g}) + 3 \text{H}_2\text{O}(\text{l})$ $\Delta h = 1560 \text{ kJ/mole}$
 $\text{H}_2(\text{g}) + \frac{1}{2} \text{O}_2(\text{g}) \rightarrow \text{H}_2\text{O}(\text{l})$ $\Delta h = 285 \text{ kJ/mole}$

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web thus for reaction 9 2 in which 1 mole of H_3O^+ and 1 mole of OH^- combine to form 2 moles of H_2O h 55.8 kJ as shown note that the enthalpy change $\Delta h_{\text{products}} - \Delta h_{\text{reactants}}$ is positive if heat is absorbed that is if $\Delta h_{\text{products}}$

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