Journeyman Renewal
2013 IMC
Introduction

- When using this you will need to click on a Hyperlink that takes you to the IMC, or one of the City of Phoenix amendments.
- After the link opens you may need to click on the internet icon to bring it onto your screen.
- You will then search the code book to find the code section. After reading the code section decide which answer is best then move on to the next question.
- Several questions are from the same code book so you may want to leave them open until you have completed the test.
1. The acceptance of alternative material, design, or method of construction to be considered must be equivalent to the code based all but which of the following criteria.

a. Durability
b. Economics
c. Strength
d. fire resistance
Answer IMC 105.2

IMC 2012
2. When a fire or health hazard is detected in a mechanical system, said system shall be declared __________.

a. a nuisance
b. a fire hazard
c. an unsafe system
d. unlawful
Answer IMC 108.7

IMC 2012
3. The maximum spacing for \( \frac{3}{4}'' \) CPVC tubing supports will not exceed ______ feet on center.

a. 3  
b. 4  
c. 5  
d. 6
Answer IMC 305.4

IMC 2012
4. Air transferred from occupied spaces may serve as _____ air for required exhaust systems in kitchens unless prohibited by table 403.03

a. Conditioned
b. Combustion
c. make-up
d. ventilation
Answer IMC 403.2.2
5. _______ controls will operate mechanical ventilation systems whenever the space is occupied.

a. only manual  
b. only automatic  
c. either manual or automatic  
d. both manual and automatic
Answer IMC 405.1

IMC 2012
6. Domestic clothes dryers shall have a maximum length of feet of exhaust duct measured from the dryer transition to the outlet terminal.

a. 8
b. 15
c. 25
d. 35
Answer IMC 504.6.4.1

IMC 2012
7. Type I hood grease duct shall be designed to provide a minimum air velocity within the duct system of _______feet per minute.

a. 500
b. 1,000
c. 1,500
d. 2,000
Answer IMC 506.3.4

IMC 2012
8. Cleanouts shall be spaced at a maximum of ______ foot intervals for horizontal grease duct serving kitchen hoods

a. 10
b. 20
c. 30
d. 40
Answer IMC 506.3.9 #1

IMC 2012
9. Ducts and air transfer openings are required to be protected with a minimum Class II ___ smoke damper complying with the International Building Code.

a. 180  
b. 220  
c. 250  
d. 280
Answer IMC 513.5.2.1

IMC 2012
10. Underground ducts shall be completely encased in a minimum of inch(es) of concrete, unless provided with an approved protection coating.

a. 1
b. 2
c. 3
d. 4
Answer IMC 603.8

IMC 2012
11. A 2-hour fire-resistance-rated wall assembly shall have a minimum fire-protection rating of _____hour(s) for a fire damper protecting the duct penetration.

a. ¾
b. 1
c. 1 ½
d. 2
Answer IMC 607.3.2.1

IMC 2012
12. Chimneys or vents shall be designed for the type of appliance being vented.

True
False
Answer IMC 801.2

IMC 2012
13. The minimum termination point above the highest point of the roof penetration for a type L vent shall be _____feet.

a. 2  
b. 3  
c. 4  
d. 5
Answer IMC 802.5

IMC 2012
14. Plume discharges from cooling towers shall be a minimum of ______feet away from any ventilation inlets to a building, unless adequately separated vertically.

a. 5  
b. 10  
c. 15  
d. 20
Answer IMC 908.3
15. The connection for blow down provisions, overflow, and drains, for cooling towers to an approved disposal system shall be made _____.

a. Directly
b. Indirectly
c. Temporarily
d. carefully
Answer IMC 908.6
16. Passageways around all sides of a boiler shall have an unobstructed width of not less than ______.
Answer IMC 1004.3

IMC 2012
17. A steam boiler shall have a _____ and a _____.

a. pressure gauge, temperature gauge
b. water gauge glass, pressure gauge
c. water gauge glass, temperature gauge
d. combination pressure temperature gauge, capacity gauge
Answer IMC 1010.2

IMC 2012
18. Steam blow off valves shall discharge to _____________.

a. the outside of the structure  
b. a safe place of disposal  
c. a secondary containment device  
d. The sanitary sewer
Answer IMC 1008.2

IMC 2012
19. R–170, Ethane, is classified as a(n) ________ refrigerant.

a. A1  
b. A3  
c. B2  
d. B3
Answer IMC 1103.1

IMC 2012
20. Stop valves in a refrigerant piping system, with soft annealed copper tubing or hard drawn copper tubing having a maximum OD standard sizing of ______ shall be securely mounted, independent of tubing or supports.

a. ½”
b. 5/8”
c. ¾”
d. 7/8”
Answer IMC 1107.8.2