

VSBA Master Beekeeper Knowledge Review Study Test

Question 1

Of the following which is not a non chemical method of controlling pest and disease

- a. drone traps
- b. screened bottom board
- c. burning
- d. paper soaked in fluvalinate

Question 2

Yeasts that cause honey to ferment will not grow at temperatures below:

- a. 52 degrees F.
- b. 57 degrees F.
- c. 61 degrees F.
- d. 70 degrees F.

Question 3

Honey bees generate heat during the winter. They use this heat to:

- a. heat the interior of the hive
- b. to heat the upper part of the hive because heat rises
- c. to keep the cluster warm, the cluster is round and insulated somewhat to retain the heat
- d. to heat only the area where there is honey so it can be liquefied for winter use

Question 4

The first observed change in worker bees behavior when the queen is lost is:

- a. the production of emergency queen cells
- b. the production of a roaring sound
- c. increased scenting behavior
- d. apparent nervousness, and increased walking and running within the hive and brood nest.

Question 5

If a hive has drone laying workers, the hive will.....:

- a. accept any queen given to them
- b. be difficult to re-queen
- c. reject any queen given to them
- d. raise a queen of their own

Question 6

Honey is composed of the following:...

- a. water, sucrose, glucose, fructose and small amt. of other substances
- b. water, sucrose, glucose and other small amt. of other substances
- c. water, sucrose, fructose and other small amt. of other substances
- d. water, glucose, fructose and other small amt. of other substances

Question 7

Queens shipped with a package of honey bees is:?

- a. is superceded about 50 percent of the time
- b. is the mother of all the bees in the package she is shipped with
- c. is a virgin queen that will need to mate before she can lay eggs
- d. is a mated queen that will be able to lay eggs immediately after being released from her queen cage by bees unrelated to her

VSBA Master Beekeeper Knowledge Review Study Test

Question 8

You find a nest with the following characteristics. A nest built in the ground in an abandoned mouse den. The nest is composed of straw, chaff, etc. and includes something that look like round balls. This is a _____ nest.

- a. Carpenter bee
- b. Bald-faced Hornets
- c. blue orchard bees
- d. bumble bees

Question 9

Africanized bees were first introduced into Brazil in:

- a. 1946
- b. 1956
- c. 1966
- d. 1976

Question 10

Larvae have simple mouth parts which lap up large quantities of food. It takes _____ visits by adult bees to supply adequate food supplies during the larval growth period.

- a. 50 to 100
- b. around 500
- c. somewhere between 1000 to 1500
- d. more than 2500

Question 11

A queen excluder is required if the beekeeper is producing....:

- a. comb honey
- b. extracted honey
- c. creamed honey
- d. chunk honey

Question 12

A package of bees will develop faster if they are given:?

- a. drawn comb + syrup for feed
- b. new foundation + syrup for feed
- c. new foundation + syrup + pollen substitute
- d. a second queen to lay more eggs and therefore produce more bees

Question 13

Installing a package of bees in the late afternoon helps prevent

- a. drifting
- b. swarming
- c. supercedure
- d. queen loss

Question 14

Laying worker bees are able to lay eggs and produce queen substance 9-oxodecenoic acid.

- a. True
- b. False

VSBA Master Beekeeper Knowledge Review Study Test

Question 15

If a hive has either a drone laying queen or laying workers, which of the following will increase in population

- a. wax moths
- b. queens
- c. workers
- d. drones

Question 16

Colonies should not be torn apart and thoroughly inspected in the spring until temperatures are at least _____ degrees F.:

- a. 50
- b. 60
- c. 70
- d. 75

Question 17

A honey bound hive is...:

- a. a hive in which the bees are storing honey in what should be brood cells
- b. a hive that has filled every honey super placed on it
- c. a hive that has produced a surplus of honey
- d. a hive that has had no honey removed from it by the beekeeper

Question 18

A good way to avoid a charge of negligent beekeeping is..?

- a. post no trespassing signs around your bee hives
- b. tell your neighbors to keep their kids away from your bees
- c. paint hives green so people don't notice them
- d. fence in your yard and post signs indicating danger of stinging insects

Question 19

The percent of substances in honey that make up the characteristic flavor, smell and color of a certain honey is about _____ %.

- a. 3
- b. 6
- c. 10
- d. 12

Question 20

The chief value of the beekeeping industry to the U.S. economy is pollination. There are over _____ commercial crops pollinated by honey bees.

- a. 25
- b. 40
- c. 60
- d. 90

Question 21

If a hive has a number of drone larvae pulled from cells and laying on the bottom board or front entrance to the hive, the beekeeper can suspect:

- a. the bees are crowded and need room for honey storage
- b. something is wrong with the nutritional condition of the colony
- c. winter has arrived and the drones are no longer needed
- d. this is a natural process that happens occasionally

VSBA Master Beekeeper Knowledge Review Study Test

Question 22

A full depth frame that is filled with honey will contain ____ pounds of food.

- a. 3 to 4
- b. 5 to 6
- c. 6 to 7
- d. none of these

Question 23

The antennae of the honey bee serves two purposes, they are?

- a. touch and smell
- b. touch and hearing
- c. touch and seeing
- d. touch and taste

Question 24

An old but true beekeeping saying is, it takes a lot of _____ to produce a large honey crop

- a. pollen plants
- b. water
- c. bees
- d. rain

Question 25

The conversion of nectar to honey involves.....:

- a. a chemical change
- b. a physical change
- c. a reduction in moisture content of water
- d. both a and b

Question 26

Two colonies with populations of about 30,000 bees each will collect _____ than one hive with 60,000 bees.

- a. more honey and pollen
- b. about the same amount of honey and pollen
- c. less honey and pollen
- d. more honey but less pollen

Question 27

Varroa and tracheal mites were first detected in the United States between :?

- a. 1971 and 1975
- b. 1976 and 1982
- c. 1983 and 1988
- d. 1989 and 1995

Question 28

Which method of honey super removal works best on cold or cool nights

- a. bee escapes of various designs
- b. butric anhydride
- c. smoke
- d. bee blower

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Question 29

A haploid drone has _____ chromosomes and all sperm produced by the drone is genetically identical.

- a. 16
- b. 24
- c. 28
- d. 32

Question 30

The following honey crop produces a dark rather strong tasting honey

- a. golden rod
- b. sweet clover
- c. buckwheat
- d. black locust

Question 31

TM-25 is used to treat not cure which of the following diseases?

- a. chalkbrood
- b. nosema
- c. varroa mites
- d. American foulbrood

Question 32

To make a weak colony stronger, you might ...

- a. remove a strong hive from its stand and place the weak colony in its place
- b. move the colony to a new location with better nectar sources, closer to water, and less stress from other bees
- c. kill the queen and re-queen with a young queen
- d. do nothing, let mother nature handle the situation

Question 33

Fermentation is a common problem for beekeepers processing liquid honey if the honey contains more than ____ percent moisture

- a. 14%
- b. 16%
- c. 18%
- d. 100%

Question 34

Bloom on beeswax:

- a. is caused by fermentation of diluted honey in wax refuse
- b. is caused by wax that is cooled too rapidly
- c. is caused by microorganisms that attack beeswax in storage
- d. is caused by allowing wax to cool slowly

Question 35

A beekeeper using the Miller Method of raising queens must learn to...:

- a. graft eggs into cell cups
- b. graft larva into cell cups
- c. use a small cage in which the queen is placed and remove small plastic cups to place in a queen cell builder hive
- d. none of these

VSBA Master Beekeeper Knowledge Review Study Test

Question 36

Of the following which is not an accepted way to get bees out of a honey super?

- a. Set the open honey super in a shady location so the bees can fly back to their hive
- b. use a bee brush to brush the bees off individual frames of honey
- c. use a chemical such as honey robber
- d. use a bee escape below a honey super

Question 37

A drone has....?

- a. a mother only, no father
- b. a mother and a father
- c. a mother and father, but no grandfather
- d. no grandparents at all

Question 38

A disease characterized by having this in its air passage ways

- a. tracheal mite
- b. varroa mite
- c. ticks
- d. water

Question 39

Division of labor dictates what a young worker bee will be doing at a given age. Of the tasks listed, which would be the first task/job a young bee would do?

- a. Tending to the queen
- b. Guard duty at the front entrance
- c. Building comb
- d. cleaning the bottoms of cells

Question 40

All of the following are negligence on the part of the beekeeper except..?

- a. to locate hives of bees where they may be expected to injure others
- b. to own a hive of bees in a populated area
- c. to move bees without protection to those along the route
- d. to know that you have aggressive bees

Question 41

According to the Committee on Common Names of Insects of the Entomological Society of America, the proper way to spell the name for bees that collect nectar/honey is:

- a. honey bee
- b. honey-bee
- c. honeybee
- d. bee

Question 42

The major purpose of spring management is...:

- a. to make sure the bees are alive after a long winter
- b. to repair hives, clean bottom boards, etc.
- c. to help each hive build up rapidly so they are in a position to harvest a surplus of honey
- d. to replace all queens

VSBA Master Beekeeper Knowledge Review Study Test

Question 43

Honey bees can see all of the following colors except:

- a. red
- b. green
- c. yellow
- d. Ultraviolet

Question 44

If left without a queen for more than two days, the bees in a newly split hive will...:

- a. reject any new queen given to them even if the beekeeper cuts all queen cells in the hive
- b. will try to raise new queens called supercedure queens
- c. will readily accept any new queen given to them even if queen cells are present in the hive
- d. will try to raise new queens called emergency queens

Question 45

If a honey bee is experiencing problems such as flying, walking or remaining upright, the beekeeper should suspect:

- a. pesticides
- b. mites
- c. skunks
- d. hive beetles

Question 46

Dr. Miller used a _____ to reduce the swarming impulse in the spring by spreading out the colony population. It provided more room for the bees.

- a. slatted rack
- b. screen bottom board
- c. queen excluder
- d. Miller feeder

Question 47

Healthy larvae will be:?

- a. white
- b. brown
- c. yellow
- d. tan

Question 48

A dangerous situation exist if the person stung by a bee begins to?

- a. has pain in the area of the sting
- b. has swelling in the area of the sting
- c. shows great discomfort such as complaining about the pain
- d. has difficulty breathing

Question 49

Winds in excess of ____ mph will cause foraging honey bees to stop flying.

- a. 10
- b. 15
- c. 18
- d. 25

Question 50

The following applies to all honey bees except..

- a. their bodies are covered with body hairs
- b. they have special body hairs for carrying pollen
- c. they sometimes forage and eat other insects
- d. they use pollen and nectar from plants as their sole source of food