

Norfolk County Beekeepers Association - 2015 Bee School Quiz	
1	The standard Langstroth movable frame hive is designed to hold ____ self spacing frames a) 8 b) 9 c) 10 d) 11
2	Deep hive bodies used in the production of brood and food stores an overall depth of _____ inches a) 9 5/8 b) 5 11/16 c) 7 5/8 d) 6 5/8
3	What are the two primary functions of comb in the honey bee colony 1) _____, 2) _____
4	Bee space is between 1/2" to 3/4" - TRUE or FALSE
5	During the summer, the worker bee lives approximately _____ weeks a) 3 weeks b) 6 weeks c) 12 weeks d) 20 weeks
6	Queens develop from fertilized eggs or from young workers larvae less than ____ days old? a) 3.5 b) 5.0 c) 3.0 d) 4.0
7	Name the three caste of honey bees normally found in a bee colony 1) _____, 2) _____, 3) _____
8	A queen will emerge from her cell in ____ days a) 16, b) 19, c) 21, d) 24
9	Name the four developmental stages in the life cycle of the honey bee 1) _____, 2) _____, 3) _____, 4) _____
10	In northern climates, colonies normally start the brood rearing process in March - TRUE or FALSE
11	The queen should reach her maximum daily egg laying rate ____ weeks prior to a major honey flow a) 3, b) 4, c) 5, d) 6
12	The minimum temperature for active foraging is approximately _____ a) 45 F, b) 50 F, c) 55 F, d) 60 F
13	Forager bees are able to distinguish sweet, salty, sour, and bitter tastes - TRUE or FALSE
14	Wax glands are located in the thorax region of the bee - TRUE or FALSE
15	Name the three primary body regions of a bee 1) _____, 2) _____, 3) _____
16	There are ____ sets of eyes on a bee. _____ BONUS OPTION - they are called _____ BONUS OPTION - what is the total count of eyes _____
17	The bee transports nectar back to the hive in its _____ a) stomach, b) honey stomach, c) thorax, d) intestines
18	Fumiliginin is given to suppress what issue a) Tracheal mites, b) Varroa mites, c) Nosema, d) Wax Moths
19	1:1 Sugar syrup for feeding bees in the spring is comprised of _____
20	Colonies should not be opened for inspection until the temperature reaches at least ____ a) 65 F, b) 40 F, c) 50 F, d) 75 F
21	At what point should a new chamber be added - when the current one is a) 40-50% drawn out, b) 60-70% drawn out, c) 80-90% drawn out, d) 100 % drawn out
22	Sugar dusting is used for treating _____
23	Match the symptoms with the disease with the following questions A) American Foulbrood _____ 1) Dark streaks of bee poop on the top bars of the frames. B) Chalkbrood _____ 2) Dead larva strings out or is ropy C) Nosema _____ 3) Dead larvae or mummies are often found at the front of the hive
24	Wax moths are a continuous threat except when temperature drops below 40 F - TRUE or FALSE

25	Healthy honey bee larvae are: a) yellowish brown b) white with a dark head c) pearly white d) mottled white and yellowish brown
26	The most common bee disease found in the US is a) American Foulbrood, b) Nosema, c) Chalkbrood, d) Sacbrood
27	Menthol and formic acid, chemicals reported to be effective against tracheal mites, may naturally occur in honey - TRUE or FALSE
28	Varroa mites prefer worker brood over drone brood for reproduction - TRUE or FALSE
29	Dysentery is an infectious disease of adult honey bees that is commonly found in late winter/early spring TRUE or FALSE
30	When nectar is ripened into honey, the bees cap it when it reaches a moisture content of: a) 30%, b) 21%, c) 18%, d) 10%
31	Honey combs should be at least _____ capped before they are removed from the colony for extraction. A) 100%, b) 75%, c) 50%, d) 25%
32	Propolis is a resinous mixture from the bark or buds of various trees - TRUE or FALSE
33	What else is propolis made from:
34	Describe four features of a normal human reaction to a bee sting 1) _____ 2) _____ 3) _____ 4) _____
35	A three pound package of bees will contain approximately _____ bees a) 5,000 b) 7,500 c) 10,000, d) 13,000
36	A queen excluder keeps the queen out of the _____ chamber a) brood, b) honey super, c) inner cover
37	Langstroth is credited with the invention of the movable frame hive - TRUE or FALSE
38	Name the two types of foundation available for use in frames: _____ & _____
39	House bees typically become foragers when they are _____ days old: a) 15, b) 21, c) 30, d) 45
40	Besides nectar and pollen, what other materials do honey bees collect from the environment a) water and propolis, b) water and bee bread, c) propolis and bee bread, d) water, propolis, and bee bread
41	In general the direct transfer of food between bees involves the passage between younger bees to older bees - TRUE or FALSE
42	Honey is one of the basic food groups - TRUE or FALSE
43	A prime swarm is made up of.....: a. worker bees, some drones, and the old queen b. made up of worker bees, some drones and one of the new queens just raised c. made up of no drones but many worker bees and a new queen d. made up of worker bees, drones and virgin queens
44	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. have difficulty breathing
45	A beekeeper can check to see if a new queen has been superseded by a. marking the queen with a dot of paint when she is introduced into the hive b. mark the hive and check for supersedure cells c. keep good records d. look for eggs that are laid on the side of the cell wall

46	Honey bees are more likely to starve....? a. in the fall b. during mid-winter c. during late winter/early spring d. late summer
47	A queen is successfully released from her queen cage if...: a. the cage is empty b. new queen cells are being built in the hive c. the bees seem very agitated d. you see eggs in worker cells
48	Examination of a brood frames shows a series of tunnels lined with silken webs going through the cell wall. This is caused by: a. Ant b. wax moths c. yellow jackets d. small hive beetles
49	What is meant by chilled brood? a. brood gets chilled because there are not enough bees to cover it, when the beekeeper makes a split and the brood dies .b. the brood gets chilled by cold weather but not because there are not enough bees to cover the brood c. It is brood chilled by cool temperatures but the brood does not die but it may delay bee development d. none of these
50	The two approved products to treat for Varroa mites are:? a. Mite Away Quick Strips(MAQS) and Api Guard b. ApiGuard and grease patties c. Apistan and TM-25 d. Mite Away Quick Strips and Fumidil B
51	If you have only one hive of bees and it dies during the winter, which is the most likely to happen to the hive if no bees are put into the hive for the upcoming season? a. a swarm will find the hive, enter and make a new home b. wax moth will destroy the wax comb in the hive before next year c. the hive will be okay if mice are kept out d. the equipment will have to be destroyed because bees will reject the equipment in the future
52	If you move a hive of bees from one location in your yard to another location 20 yards away, you can expect the bees to: a. Immediately search out the new location and behave as if nothing has changed b. Return to find the hive not in the expected location and settle either on the ground or seek out a nearby tree limb c. fly away not to return d. die of starvation because they have nowhere to go
53	A hive that has mean - very mean bees - can be changed. How? a. You can't. b. kill the old queen and replace her with a queen from gentle stock c. move the hive to a new location d. smoke the bees with a lot of smoke
54	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 rise sc. 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
55	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

56	<p>If left without a queen for more than two days, the bees in a newly split hive will...:</p> <ol style="list-style-type: none"> reject any new queen given to them even if the beekeeper cuts all queen cells in the hive will try to raise new queens called supersedure queens will readily accept any new queen given to them even if queen cells are present in the hive will try to raise new queens called emergency queens
57	<p>Where is the very worst place to locate a hive of bees?</p> <ol style="list-style-type: none"> facing in a southwestern direction Under a shade tree Near shrubs that block their flight path On your lot-line facing the neighbor's yard
58	<p>American foulbrood can be spread most likely by which of the following?</p> <ol style="list-style-type: none"> sugar syrup queen cage candy honey water
59	<p>If you have capped Queen cells the queen should emerge in no more than ____ days</p> <ol style="list-style-type: none"> 5 7 9 10
60	<p>If you find dead bees with their heads inserted into cells during your spring inspection, the most probable cause of their death is:</p> <ol style="list-style-type: none"> nosema disease pesticide poisoning dysentery starvation
61	<p>A honey bound hive is...:</p> <ol style="list-style-type: none"> a hive in which the bees are storing honey in what should be brood cells a hive that has filled every honey super placed on it a hive that has produced a surplus of honey a hive that has had no honey removed from it by the beekeeper
62	<p>To make 1:1 sugar syrup you mix</p> <ol style="list-style-type: none"> 10 cups water 10 pounds sugar 5 cups water 10 cups sugar 10 cups water 5 pounds sugar None of the above
63	<p>What is the top speed of a honey bee.</p> <ol style="list-style-type: none"> faster than the fastest human 5 mph 15 mph none of the above
64	<p>How do you clean the honey extractor after using.</p> <ol style="list-style-type: none"> soap and water let the bees clean it out warm water and 1 teaspoon bleach let the next person clean it
65	<p>A queen uses its stinger for what purpose.</p> <ol style="list-style-type: none"> to discipline young brood to defend the hive from intruders she does not have a stinger to kill unborn queens before they emerge

66	Which general direction does the hive face. A. north/east B. south/east C. north/west D. south/west
67	What is a workers bees favorite pop singer?
68	What is a drones favorite pop singer?