

**Norfolk County Beekeepers Association — 2020 FINAL 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)  $9 \frac{5}{8}$
  - b)  $5 \frac{11}{16}$
  - c)  $7 \frac{5}{8}$
  - d)  $6 \frac{5}{8}$
  
3. What are the two primary functions of comb in the honey bee colony
  - a) \_\_\_\_\_
  - b) \_\_\_\_\_
  
4. Bee space is between  $\frac{1}{2}$  to  $\frac{3}{4}$  — TRUE or FALSE
  
5. During the summer, the worker bee lives approximately \_\_\_\_\_ weeks
  - a) 3 weeks
  - b) 6 weeks
  - c) 12 weeks
  - d) 0 weeks
  
6. Queens develop from fertilized eggs or from young worker's 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
  - a) \_\_\_\_\_

b) \_\_\_\_\_

c) \_\_\_\_\_

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

a) \_\_\_\_\_

b) \_\_\_\_\_

c) \_\_\_\_\_

d) \_\_\_\_\_

10. In northern climates, colonies normally start the brood rearing process in March TRUE or FALSE

11. On a sunny day, what is the minimum temperature for active foraging?

a) 20/30 F

b) 40/45 F

c) 50/55 F

d) 60/65 F

12. Forager bees are able to distinguish sweet, salty, sour, and bitter tastes — TRUE or FALSE

13. Wax glands are located in the \_\_\_\_\_ region of the bee.

14. Name the three primary body regions of a bee.

a) \_\_\_\_\_

b) \_\_\_\_\_

c) \_\_\_\_\_

15. There are \_\_\_\_ sets of eyes on a bee.

a. Bonus OPTION — they are called \_\_\_\_\_

b. Bonus OPTION — what is the total count of eyes \_\_\_\_\_

16. The bee transports nectar back to the hive in its \_\_\_\_\_

- d) stomach,
- e) honey stomach,
- f) thorax,
- g) intestines

17. 1:1 Sugar syrup for feeding bees in the spring is comprised of \_\_\_\_\_

18. 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

19. At what point should a new chamber be added -when the current one is

- a. 40-50% drawn out, b)
- b. 60-70% drawn out, c)
- c. 80-90% drawn out, d)
- d. 100 % drawn out

20. Match the symptoms with the disease with the following questions

- 1) Dark streaks of bee poop on the top bars of the frames\_\_\_\_\_ A- American Foulbrood
- 2) Dead larva strings out or is ropy \_\_\_\_\_ B- Chalk brood
- 3) Dead larvae or mummies are often found at the front of the hive\_\_\_\_\_ C- Nosema

21. Wax moths are a continuous threat except when temperature drops below 32 F --

TRUE or FALSE

22. Healthy honey bee larvae are:

- a. yellowish brown
- b. white with a dark head
- c. pearly white

d. mottled white and yellowish brown

23. The most common bee disease found in the US is

- a. American Foulbrood
- b. Nosema
- c. Chalk brood
- d. Sac brood

24. Menthol and formic acid, naturally occur in honey — TRUE or FALSE

25. Varroa mites prefer worker brood over drone brood for reproduction — TRUE or FALSE

26. Dysentery is an infectious disease of adult honey bees that is commonly found in late winter/early spring — TRUE or FALSE

27. 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%

28. Honey combs should be at least \_\_\_\_\_ capped before they are removed from the colony for extraction.

- a. 100%
- b. 85%
- c. 50%
- d. 25%

29. Propolis is a resinous mixture from the bark or buds of various trees — TRUE or FALSE

30. What else is Propolis made from:

31. Describe four features of a normal human reaction to a bee sting

- a. \_\_\_\_\_
- b. \_\_\_\_\_
- c. \_\_\_\_\_
- d. \_\_\_\_\_

32. A three-pound package of bees will contain approximately \_\_\_\_\_ bees

- a. 1,000/2000
  - b. 3000/4000
  - c. 10,000/13,000
  - d. 60,000
33. A queen excluder keeps the queen out of the \_\_\_\_\_ chamber
- a. brood
  - b. honey super
  - c. Inner cover
34. Langstroth is credited with the invention of the movable frame hive — TRUE or FALSE
35. Name the two types of foundation available for use in frames: \_\_\_\_\_ & \_\_\_\_\_
36. House bees typically become foragers when they are \_\_\_\_\_ days old:
- a. 15
  - b. 21
  - c. 30
  - d. 45
37. 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
38. In general the direct transfer of food between bees involves the passage between younger bees to older bees — TRUE or FALSE
39. Honey is one of the basic food groups — TRUE or FALSE
40. 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
41. A dangerous situation exists 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

42. Honey bees are more likely to starve \_\_\_\_\_?

- a. in the fall
- b. during mid-winter
- c. during late winter/early spring
- d. late summer

43. How do you know if A queen is successfully released from her queen cage \_\_\_\_\_

- 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

44. 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

45. Opening a Beehive in cold weather can lead to chilled brood.

What is the lowest temperature to safely open a hive for an inspection?

- a. 85 F
- b. 40 F
- c. 65 F
- d. 30 F

46. What are some of the approved products to treat for Varroa mites are?

- a. \_\_\_\_\_

- b. \_\_\_\_\_
- c. \_\_\_\_\_
- d. \_\_\_\_\_

47. 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

48. 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

49. A hive that has 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

50. 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

51. 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
52. 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 supersedure 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
53. Where is the very worst place to locate a hive of bees?
- a. facing in a southwestern direction
  - b. Under a shade tree
  - c. Near shrubs that block their flight path
  - d. On your lot-line facing the neighbor's yard
54. American foulbrood can be spread most likely by which of the following?
- a. sugar syrup
  - b. queen cage candy
  - c. honey/Robbing
  - d. water
55. If you have capped Queen cells the queen should emerge in no more than \_\_\_\_ days
- a. 5
  - b. 7
  - c. 9
  - d. 10
56. If you find dead bees with their heads inserted into cells during your spring inspection, the most probable cause of their death is:
- a. Nosema disease

- b. pesticide poisoning
- c. dysentery
- d. starvation

57. 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

58. If you set up an outside feeding station what are the potential hazards' to your hive?

\_\_\_\_\_

59. When using OAV what protective gear is needed?

\_\_\_\_\_

60. When you are installing a package should you spray the Bees with Sugar water first?

\_\_\_\_\_

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