BETHANY HIGH SCHOOL NAALYA

S.2 BIOLOGY

INSTRUCTIONS

Answer all questions in this section. Write the letter representing the most correct answer to each Question in the box provided.

SECTION A :20 MARKS

- 1. Which one of the following is a method of controlling tapeworms?
 - (a) Use of insecticide (b) Chlorination of water
 - (b) Draining of stagnant water (d) proper disposal of sewage
- 2. Which of the following is a vector of yellow fever?
 - (a) Aedes mosquito (b) culex mosquito
 - (c) Anopheles mosquito (d) Slock fly
- 3. A soil sample was healed at 100oC to a constant weight which component of the soil was being investigated ?
 - (a) Organic matter (b) Air (c) Microorganisms (d) water
- 4. Which of the following is a characteristic of insect pollinated flowers?
 - (a) Produce large qualities of pollen grains (b) Are small and dull colored
 - (c) Have large featherly stigmas (d) Their anthers are firmly attached.

5. Fungi are not classified as plants because they

- (a) Do not have proper roots (b) Lack vascular tissue
- (c) Lack chlorophyll (d) Have rigid all walls
- 6. A housefly and a tick belong to the same phylum arthropoda because they both have
 - (a) Two body divisions (b) Jointed limbs
 - (c) Three pairs of legs (d) To pairs of antennae
- 7. Which of the following is a difference between an adult and newly hatched nymph of a cockroach.

Adult

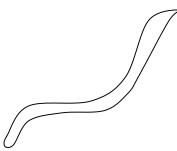
Nymph

(a) Has three pairs of legs
(b) Has compound eyes
(c) Has wings
(d) Has a pair of antennae
Has no antennae

- 7. Which of the following is a taxonomic class
 (a) Anelida
 (b) Arthropoda
 (c) Arachnida
 (d) Platyhelminthes
- 8. Which of the following is a difference between an adult and new hatched nymph of acockroach

Adult	Nymph
Has three pairs of legs	Has no legs
Has compound eyes	Has no eyes
Has wings	Has no wings
Has a pair of antennae	Has no antennae

- 9. A larva of a housefly moults a number of times before it pupates in order to
 - (a) Breath more easily
 - (b) Pass out waste products
 - (c) Increase in size
 - (d) move faster
- 10. To which of the following phyla does the organism in figure 1 belong.



(a) Annelida (b) Namatoda (c) Coelenterata (d) Platyhelminthes

mouth

- 11. Which of the following is a characteristic of Arachinids ?
 - (a) Lack antennae (b) Have compound eyes
 - Have many appendages (d) Have three body parts
- 12. Which of the following methods of controlling malaria does not harm the environment?
 - Draining ponds (b) Use of insecticides like DDT
 - (c) Spraying oil top of water ponds (d) Introducing fish into ponds
- 13. Which of the following organisms reproduce by budding?

(a)

14.	Which of the following doesnot transport oxygen by blood.										
	(a)) Cockroach		(b)	Frog		(c)	Bird		(d)	Fish
15.	A sey	A sexual reproduction in a Rhizopus results into									
	(a)	Zygospores (b) buds (c)		Fragr	Fragments (d)		Spore	Spores			
16.	Which one of the following phylan consists of human parasites										
	(a)	Nematoda	(b)	Moll	usca	(c)	Coele	entrata	(d)	Edino	odermata
17.	Which one of the following is not used for gaseous exchange in amphibians?								s?		
	(a)	Lungs	(b)	Skin		(c)	Mout	h	(d)	Nostr	ils
18.	Which of the following classes has the highest number of species?										
(a)	Crust	Crustacea (b) Arachnida (c) Insecta (d) Myriapoda									
19.	Which of the following features differentiate a housefly from spider										
	(a) Segmented body (b) jointed limbs										
	(c) Number of body parts (b) Possession of exoskeleton.										
20.		ch one of the f insect to the		C	correct	route ta	aken by	v carbo	ndioxic	le from	the body cells

- (a) Trachea \longrightarrow tracheoles \longrightarrow spiracles
- (b) Spiracles → Trachea → tracheoles
- (c) $\overline{\text{Tracheoles}} \longrightarrow \text{trachea} \longrightarrow \text{soiracles}$
- (d) Spiracles \longrightarrow tracheoles \longrightarrow tracheo

SECTION B

Write answers in the spaces provided

- 21. (a) Define the term metamorphosis (1mk)
 - (b) Draw illustrations to show complete and incomplete metamorphosis

complete	incomplete	

	(b)	Give	Give an example of each type						
		(i)	Complete metamorphosis	(ii)	Incomplete metamorphosis				
22.	. (a)		How are insects adapted to their r	node o	of life in their habitants (5mks)				
				• • • • • • • • • •					

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Order	Example
(i)	 (i)
(ii)	 (ii)
(iii)	 (iii)
(iv)	 (iv)
(v)	 (v)
(vi)	 (vi)

(c) Identify the five orders of insects giving an example for each

SECTION C

Choose only one question from this section

23.	(a)	Describe the life cycle of a housefly.	(2mks)
	(b)	Mention any two diseases spread by a housefly.	(2mks)
	(c)	Mention any ways in which the above can be prevented.	
24.	(a)	List down the primary functions of roots.	(3mks)
	(b)	Giving an example in each case, state modified function of roots.	(7mks)
End			