

**155- Exotoxins :**

- a- Lipoproteins
- b- LPS
- c- Nucleic acid
- d- Proteins
- e- Peptidoglycan

**156- Which one of the following best describes the mode of action of endotoxins :**

- a- Degrades lecithin in cell membrane
- b- Hypertension
- c- Block release of acetyl choline
- d- Causes the release of tumor necrosis factor

**157- Enzyme which can destroy neutrophils and macrophages :**

- A- Leukocidins
- B- IgA protease
- C- Coagulase
- D- Collagenase

## **General virology**

**158- Which of the following statements about virus induced cytopathic changes is most accurate :**

- a- They are pathognomonic for an infecting virus
- b- They are rarely associated with cell death
- c- They may include giant cell formation
- d- They can only be seen by an electron microscope

**159- Which of the following can be used to quantitate the titer of infectious viruses :**

- a- Plaque assay
- b- Electron microscopy
- c- Hemagglutination
- d- PCR
- e- Enzyme immunoassay

**160- Which of the following statements regarding virus morphology is true :**

- a- All RNA viruses are spherical in shape
- b- Some viruses contain flagella
- c- Some viruses with DNA genome contain nucleus
- d- Viral surface proteins protect viral genome from nucleases
- e- Helical nucleocapsid are found with single stranded DNA virus

**161-Prion is an atypical virus that contain which of the following :**

- a- Circular RNA
- b- Multiple copies of plasmid
- c- No detectable nucleic acid
- d- Double stranded RNA
- e- Host cell DNA instead of viral DNA

**162-Which of the following statements best describe virus :**

- a- Obligatory extracellular parasites
- b- Can be grown on blood agar
- c- Contain both DNA and RNA
- d- Can be treated by antibiotics
- e- Very small in size 20-300 nm

**163-Viral replication :**

- a- Occurs by binary fission
- b- Requires host cell macromolecules
- c- Can be prevented by antibiotics
- d- Can occur in synthetic media

**164-The protein coat which surrounds the nucleic acid of animal viruses is called :**

- a- Envelope
- b- Nucleocapsid
- c- Capsomer
- d- Capsid

**165-Capsid symmetry found in smallpox VIRUS IS :**

- A- Helical
- B- Complex
- C- Icosahedral
- D- Non Of These

**166-One of the following statements is not true for viruses :**

- a- Contain either DNA or RNA
- b- Lack mitochondria
- c- Contain protein coat
- d- Multiply by binary fission

# Answers

1- A	38-B	76-B	114-D	152-B
2- A	39-A	77-D	115-C	153-B
3- C	40-A	78-B	116-B	154-A
4- A	41-E	79-B	117-A	155-D
5- A	42-D	80-B	118-C	156-D
6- D	43-D	81-A	119-D	157-A
7- B	44-A	82-C	120-B	158-C
8- A	45-C	83-A	121-D	159-A
9- B	46-C	84-C	122-A	160-D
10-A	47-B	85-B	123-C	161-C
11-B	48-C	86-C	124-D	162-E
12-B	49-A	87-B	125-C	163-B
13-B	50-B	88-B	126-B	164-D
14-C	51-C	89-C	127-C	165-B
15-B	52-C	90-C	128-D	166-D
16-B	53-C	91-A	129-B	167-D
17-B	54-A	92-C	130-A	168-B
18-A	55-C	93-D	131-E	169-E
19-A	56-D	94-A	132-B	170-C
20-A	57-B	95-A	133-A	171-D
21-E	58-C	96-B	134-B	172-C
22-C	59-B	97-C	135-C	173-B
23-D	60-B	98-A	136-C	174-C
24-C	61-A	99-C	137-B	175-C
25-A	62-A	100-B	138-E	176-D
26-B	63-B	101-B	139-D	177-A
27-B	64-B	102-C	140-B	
28-A	65-C	103-C	141-C	
29-C	66-B	104-B	142-D	
30-C	67-A	105-C	143-C	
31-D	68-B	106-D	144-B	
32-C	69-B	107-C	145-B	
33-E	70-B	108-C	146-C	
34-C	71-C	109-A	147-A	
35-C	72-B	110-B	148-A	
36-A	73-D	111-C	149-D	
37-A	74-D	112-B	150-A	
	75-C	113-C	151-C	