

- 01.** Which kidney Disease is a "Global Public Health" Problem Worldwide ?
- (1) Acute Kidney Injury (AKI)
 - (2) Kidney Stone
 - (3) Chronic Kidney Disease (CKD)
 - (4) Renal Papillary Necrosis
- 02.** Which Virus affects mainly Human Immune System ?
- (1) Hepatitis A Virus (HAV)
 - (2) Parvo Virus B19
 - (3) Cytomegalovirus (CMV)
 - (4) Human Immunodeficiency Virus (HIV)
- 03.** Which BHU Alumnus is honoured with "Bharat Ratna" ?
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|---------------------|-------------------------|
| (1) Prof.K.N.Udappa | (2) Prof.O.N.Srivastava |
| (3) Prof.C.N.R.Rao | (4) Prof.R.D.Dwivedi |
- 04.** Which of the following drug is used as "Immunosuppression" ?
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| (1) Citrofloxocin | (2) Aspirin |
| (3) Ampicellin | (4) Cyclosporine |
- 05.** The Probability of a particle to cross a barrier of height more than the kinetic energy of the particle is :
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| (1) zero | (2) one |
| (3) between zero and one | (4) 50% |

06. Deficiency of which of the following mineral nutrients induces dental carries and mottled enamel ?
- (1) Molybdenum (2) Cobalt
(3) Fluorine (4) Iron
07. Oxidation number of Iodine is highest in which compound ?
- (1) KI (2) KI₃
(3) IF₅ (4) KIO₄
08. In which part of our body, antibodies are formed ?
- (1) Brain (2) Lungs
(3) Bone marrow (4) Spleen
09. Which of the following sensations is not generated by impulses initiated in naked nerve endings ?
- (1) Touch (2) Pain
(3) Cold (4) Smell
10. Sound cannot travel through :
- (1) Air (2) Water
(3) Fire (4) Vacuum
11. The stages of a malignant disease (cancer) is recorded using the symbols 0, I, II, III, IV. We say that the scale used is;
- (1) Alphanumeric (2) Numerical
(3) Ordinal (4) Nominal

12. If the average of a series of values is 10 and their variance is 4, then the coefficient of variation is :
- (1) 40% (2) 20% (3) 80% (4) 10%
13. The median of a Series of numerical values is :
- (1) A value for which half of the values are higher and half of the values are lower
- (2) The value located exactly midway between the minimum and maximum of the series
- (3) The most commonly encountered values among the series
- (4) A measure of the eccentricity of the series
14. The first quartile of a series of values is :
- (1) The numeric value for which two quarter of the series' values are lower
- (2) The value of the ordered series located at 75% of the number of values in the series
- (3) The value in the ordered series located at 25% of the number of values in the series
- (4) The numeric value for which a quarter of the series' values are higher
15. If on a group of 457 patients, for a risk factor we calculated a Relative Risk $RR=12.74$, the possibility of developing the disease being investigated is :
- (1) Not relevant as RR is less than 100
- (2) Very small when exposed to the factor
- (3) The same in the case of exposure in the case of non-exposure
- (4) Very high when exposed to the factor

16. The Sensitivity (SN) of a clinical trial :
- (1) Is the ratio of sick patients, diagnosed as positive and the total number of sick patients.
 - (2) Is the ratio of healthy subjects, diagnosed as negative and the total number of healthy subjects
 - (3) Is the ratio of sick patients, diagnosed as negative and the total number of patients.
 - (4) Is the ratio of sick patients, diagnosed as negative and the total number of healthy persons
17. The Confidence Interval for the mean, calculated for a series of values, has the interpretation :
- (1) The true mean, the one that approximates the population's mean, is almost certain inside the confidence interval
 - (2) The true variance is almost certain inside the confidence interval
 - (3) The true median is almost certain inside the confidence interval
 - (4) It is an interval that contains almost all the values of the series
18. The result of a statistical test, denoted p , shall be interpreted as follows :
- (1) The null hypothesis H_0 is accepted if $p < 0.05$
 - (2) The null hypothesis H_0 is rejected if $p > 0.05$
 - (3) The alternate hypothesis H_1 is rejected if $p > 0.5$
 - (4) The null hypothesis H_0 is rejected if $p < 0.05$
19. Helicobacter Pylori is :
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|---------------------------|---------------------------|
| (1) Gram positive bacilli | (2) Gram negative bacilli |
| (3) Gram positive cocci | (4) Gram negative cocci |

- 20.** Most probable route of transmission of *Helicobacter pylori* :
- (1) Parenteral (2) Faeco-oral
(3) Blood transfusion (4) Placental
- 21.** Which of the following virus is associated with owl's eye inclusion body ?
- (1) Herpes simplex virus (2) Cytomegalovirus
(3) Epstein bar virus (4) Adenovirus
- 22.** Faeco oral route of transmission is seen in :
- (1) Hepatitis A virus (2) Hepatitis B virus
(3) Hepatitis C virus (4) Hepatitis D virus
- 23.** Vaccine is not available for which of the following viruses :
- (1) Hepatitis A virus (2) Hepatitis B virus
(3) Hepatitis C virus (4) Varicella zoster virus
- 24.** Which of the following statement is false regarding hepatitis A virus ?
- (1) It is single stranded positive sense RNA virus
(2) Vaccine is given as intramuscular injection
(3) It is blood born infection
(4) Commonly presents with jaundice
- 25.** True statement regarding hepatitis B virus :
- (1) It causes both acute and chronic hepatitis
(2) It is single stranded DNA virus
(3) It has single genotype
(4) It's genome contains 9600 nucleotides

26. Ampulla of Vater is located in :
- (1) Jejunum (2) Ileum
(3) Stomach (4) Duodenum
27. Digestive juice is secreted by :
- (1) Spleen (2) Esophagus
(3) Pancreas (4) Large intestine
28. Which of the following is not a inflammatory mediator ?
- (1) Interleukins (2) Lymphokines
(3) Tumour necrosis factor-alpha (4) Cholecystokinin
29. Vitamin A deficiency causes all except :
- (1) Follicular hyperkeratosis (2) Excessive bleed
(3) Bitot's spot (4) Night blindness
30. Pellagra is caused by deficiency of :
- (1) Niacin (2) Riboflavin
(3) Thiamine (4) Folic Acid
31. Which of the following is not an antioxidant ?
- (1) Vitamin A (2) Vitamin E
(3) Selenium (4) Vitamin B12
32. Metastasis term is usually used with :
- (1) Malignancy (2) Chronic constipation
(3) Diarrhoea (4) Pancreatitis

33. Bile juice is stored in :

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| (1) Common bile duct | (2) Gall bladder |
| (3) Liver | (4) Small intestine |

34. Most common cause of diarrhoea in children :

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| (1) Rota virus | (2) Adeno virus |
| (3) Cytomegalovirus | (4) Varicella zoster virus |

35. Age of infant is

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| (1) <1 months | (2) <6 months |
| (3) <12 months | (4) <18 months |

36. Longest bone in human body :

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| (1) Femur | (2) Tibia |
| (3) Ulna | (4) Humerus |

37. Power house of cell is :

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| (1) Ribosome | (2) Golgi body |
| (3) DNA | (4) Mitochondira |

38. Which of the following is not secreted by stomach ?

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| (1) Hydrochloric acid | (2) Pepsinogen |
| (3) Sulphuric acid | (4) Intrinsic factor |

39. Which of the following is a vestigealorgan ?

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| (1) Appendix | (2) Jejunum |
| (3) Ileum | (4) Rectum |

40. Clotting factor VIII deficiency causes :

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| (1) Thalassemia | (2) Leukaemia |
| (3) Hemobilia | (4) Hemophilia |

Short Answer Questions

Note: Attempt any **five** questions. Write answer in **150-200** words. Each question carries **16** marks. Answer each question on separate page, after writing Question Number.

01. What are the phases of cell division ?
02. Name of various enzymes with source of secretion in digestion.
03. Life cycle of Entamoebahistoltytica.
04. Name of various protozoans causing diarrhoea in humans.
05. What are the components of metabolic syndrome ?
06. Draw a schematic diagram of HIV virion.
07. Discuss briefly the life cycle of Ascaris.
08. What are the worms infecting humans ?
09. Discuss briefly about nutritional care in liver disease.
10. Fat soluble vitamin deficiency.