



MCP-003-001546 Seat No. _____

B. Sc. (Forensic Science) (Sem. V) (CBCS) Examination

May / June - 2018

FS - 501 : Forensic Biology, Serology & Anthropology

Faculty Code : 003

Subject Code : 001546

Time : $2\frac{1}{2}$ Hours]

[Total Marks : 70

- Instructions :** (1) This question paper contains three questions.
(2) All are compulsory.
(3) Draw neat and labeled diagrams wherever necessary.
(4) Figure to the right indicate marks.

1 Give the answer of following questions-one mark each : **20**

- (1) Difference between secretor and non secretor?
- (2) Greenish vomit is due to _____ disease.
- (3) Which body fluid is the forceful expulsion of stomach contents from mouth?
- (4) Give the example of body fluids.
- (5) What is the molecular weight of PSA ?
- (6) Pigmentation in human hair is more towards periphery. Is it true?
- (7) Give the types of fiber.
- (8) Give the types of diatoms.
- (9) What is WPA 1972?
- (10) In forward method what is the blood group when agglutination in A cavity is positive and in B cavity is negative?
- (11) Give the full name of STR.
- (12) Which base pairs are there in DNA?
- (13) What is the function of PCR?
- (14) Define bruise.

- (15) Give the dental formula of Human child.
- (16) What is enamel?
- (17) What is the cranial capacity of male?
- (18) What is injury?
- (19) How many cervical vertebrae are there in human skeleton?
- (20) Give the name of the longest bone of the human body.

2 Give the answers of following questions as per instruction

(A) Write any **three** out of six : **6**

- (1) Name the types of Body Fluids with 2 examples.
- (2) Composition of Urine.
- (3) Define: Vomit and Nausea
- (4) Give the only name for the forensic analysis of semen.
- (5) What is Forensic Entomology?
- (6) Draw a Morphological diagram of hair.

(B) Write any **three** out of six : **9**

- (1) Describe the urea nitrate crystal and creatinine test for urine
- (2) Define saliva, give its characteristics, composition and name the glands secreting saliva.
- (3) Define vomit and function and causes of vomit.
- (4) What is the function of prostate gland and bulbo urethral gland?
- (5) Explain the features of diatoms and its coloration.
- (6) Which micrometry measurements can be done from hair?

(C) Write any **two** out of five : **10**

- (1) Starch iodine and radial diffusion test for saliva.
- (2) Explain the confirmatory test for semen stains.
- (3) Draw structure of hair and Differentiate Animal and Human hair.
- (4) Brief introduction of diatoms and its forensic significance.
- (5) Give the classification chart of fibers.

- 3** Give the answers of following questions as per instruction :
- (A) Write any **three** out of six : **6**
- (1) Define: Injury and classify it.
 - (2) What findings will you notes in a typical hanging case? (2 points)
 - (3) Classify Serum proteins.
 - (4) Name the grouping methods of fresh blood.
 - (5) Types of hanging.
 - (6) Give the name of isoenzymes.
- (B) Write any **three** out of six : **9**
- (1) What is the principle behind absorption- inhibition method?
 - (2) Define : Molecular markers and give its types.
 - (3) Draw a chart table of eruption of temporary teeth.
 - (4) Give main features of lacerations.
 - (5) What are the PM appearances in lightening death?
 - (6) Give the formula of Karl Pearson from wet bone of female and male.
- (C) Write any **two** out of five : **10**
- (1) How does PCR works?
 - (2) Give the classification of injuries.
 - (3) Write a note on isoenzymes.
 - (4) Species origin test for blood.
 - (5) Explain Drowning.
-