

**B.Sc. MEDICAL LABORATORY TECHNOLOGY  
(BMLT)**

**Term-End Examination**

**December, 2013**

**BAHI-004 : CLINICAL PATHOLOGY AND  
PARASITOLOGY**

*Time : 3 hours*

*Maximum Marks : 70*

*Note : Attempt all questions. Follow instructions under each questions.*

**PART-A**

1. (a) Answer true or false : 1x5=5
- (i) For malaria man is the intermediate host.
  - (ii) PARAGONIMAS WESTERMANI is a liver fluke.
  - (iii) Normally atleast 80% of the sperm are actively motile.
  - (iv) C.S.F is filtered through meninges.
  - (v) Pandy's test is used for the detection of globulin.
- (b) Fill in the blanks : 1x5=5
- (i) When name of the specimens show any free acid in gastric juice is called \_\_\_\_\_.
  - (ii) The normal range of urine volume is \_\_\_\_\_.
  - (iii) The main host of Trichinella spiralis is \_\_\_\_\_.
  - (iv) The presence of blood in the sputum is refered as \_\_\_\_\_.
  - (v) The larval form of Taenia Solium which is seen in man is \_\_\_\_\_.

2. Write briefly on : 2x5=10
- (a) P.falciparum gametocyte.
  - (b) Malaena.
  - (c) Exudate.
  - (d) Xanthochromia.
  - (e) Bence-Jone's protein.
3. Write short note on *any four* of the following : 5x4=20
- (a) E.H.cysts.
  - (b) Enterobius vermicularis.
  - (c) Sperm count.
  - (d) Casoni test.
  - (e) Preservation of urine.

### PART - B

Answer **any three** questions of the following :

4. (a) How would you instruct patients for collecting urine specimens for the following tests ? 1½+1½+5+2=10
- (i) Routine microscopic examination
  - (ii) Bacteriology culture
  - (iii) 24 hours urine protein
- (b) Name three common methods done in the laboratory for estimating urinary proteins.
- (c) Describe in detail one of the chemical methods done for the above test.
- (d) What is the significance of protein urea ?
5. (a) Write the composition of normal semen.
- (b) Describe the various tests done for semen examination.
- (c) Significance of semen in patients of :
- (i) Vasectomy.
  - (ii) Infertility. 2+6+2=10

6. (a) What is the importance of microscopic examination of urine sediment ?  
(b) What are the precautions to be taken while preparing urine sediment ?  
(c) List the various unorganised sediment.  
(d) Draw and describe various crystals found in acid urine. 1+2+2+5=10

7. (a) Enumerate species of malarial parasite.  
(b) Describe with diagram the life cycle of the plasmodium which causes cerebral malaria.  
(c) Describe various methods for detection of plasmodium parasite in peripheral blood. 2+5+3=10
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