

**M.Sc. 3rd Semester Examination, 2019**

**BIO-MED. LAB. SCI. AND MGM.**

**PAPER —BLM-302**

*Full Marks : 40*

*Time : 2 hours*

**Answer all questions**

*The figures in the right-hand margin indicate marks*

*Candidates are required to give their answers in their own words as far as practicable*

*Illustrate the answers wherever necessary*

1. Answer any *four* of the following : 2 × 4
- (a) What do you mean by infiltration and impregnation ?
- (b) Write the use of cryomicrotome.
- (c) What is immunofluorescence technique ?

- (d) What is the objective of clearing in tissue processing ?
- (e) What do you mean by definitive host ?
- (f) What is gravid proglotide ?
- (g) What do you mean by nocturnal type of endoparasite ?
- (h) What is zoonotic parasite ?

2. Answer any *four* of the following : 4 × 4

- (a) State the process of tissue dehydration. 4
- (b) Draw the line diagram of 'Haematoxylin-Eosin' staining. 4
- (c) Write the principle of marker identification for disease diagnosis through immunohistochemistry. 4
- (d) Discuss the ABC technique in short. 4
- (e) Briefly discuss the MC Master egg counting technique. 4

(f) Write the clinical symptoms of amebiasis and filariasis. 2 + 2

(g) Discuss the life cycle of any one blood fluke. 4

(h) Write the pathological symptoms of *Ascaris lubricoides*. Name two medicines for the prevention of *Ascaris* infection. 3 + 1

3. Answer any *two* of the following : 8 × 2

(a) Discuss the advantages and disadvantages of autotissue processor and autotissue stainer. 4 + 4

(b) Describe the process adopted for glycogen staining through histochemistry. 8

(c) (i) Write the principle and procedure of occult blood test.

(ii) What are the necessary precaution taken after collection of stool specimen ? (2 + 4) + 2

(d) (i) Write the morphological features of *Giardia lamblia*.

(ii) Discuss the brief life cycle of *Taenia solium*.

(iii) Write the symptoms of taeniasis. 2 + 4 + 2

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