

2016**M.Sc.****3rd Semester Examination****BIOMEDICAL LABORATORY SCIENCE AND MANAGEMENT****PAPER—BLM-304***Full Marks : 40**Time : 2 Hours**The figures in the right-hand margin indicate full marks.**Candidates are required to give their answers in their own words as far as practicable.**Illustrate the answers wherever necessary.**Answer Q. No. 1 and any three from the rest.***1. Answer any ten questions : 10×1****(a) What are opportunistic fungi ?****(b) Name one dimorphic fungi.****(c) What are the components present in lugol iodine solution ?***(Turn Over)*

- (d) Write any two features of scolex of *T-solicem*.
 - (e) What do you mean by zoonotic parasite ?
 - (f) Write the name of two drugs for the treatment of malaria.
 - (g) Name a solid media used for fungal culture.
 - (h) What do you mean by nocturnal type of endoparasite ?
 - (i) Why urogenital swab is collected ?
 - (j) What is Cysticercosis ?
 - (k) What do you mean by pseudomycellium ?
 - (l) Why fungi are PAS (+) in nature ?
 - (m) What do you mean by definitive host ?
 - (n) Write two features of Vegetative structure of yeast.
 - (o) Write the two symptoms of taeniasis ?
2. (a) How fungal infection can be diagnosed in the laboratory ? Mention name of different methods and discuss any one in detail.

- (b) What are the causative agent for black and white piedra ?
- (c) How will you collect samples to study fungal infection on skin ?

(2+3)+2+3

3. (a) Write short note on actinomycosis.

(b) Write down the protocol for CSF analysis of fungal infection.

(c) State in brief about the quality control of clinical mycology laboratory.

3+4+3

4. (a) Write the principle of occult blood test.

(b) Write the major pathological symptoms of strongyloids stercoralis.

(c) Write two morphological features of Rhabditiform larvae of nematodes.

(d) Write the symptoms of filariasis.

2+3+2+3

5. (a) Write the morphological features of *Entamoeba histolytica*.
- (b) Write the clinical symptoms of amebiasis.
- (c) Write any one technique for the detection of parasitic egg.
- (d) What is the route of transmission of *Balantidium coli*?

2+3+4+1

6. (a) Write the two microscopic identifying character of mature size out.
- (b) Write the name of two pathogens that causes filariasis.
- (c) State the morphological features of *Ascaris lubricoides*.
- (d) Describe the brief life cycle of *Toxoplasma gondii*.

2+2+2+4