

(LJ 120)

OCTOBER 2016

Sub. Code:2017

**M.D. DEGREE EXAMINATION
BRANCH IV – MICROBIOLOGY
PAPER IV – MYCOLOGY AND APPLIED MICROBIOLOGY AND
RECENT ADVANCES**

Q.P.Code: 202017

Time: Three Hours

Maximum: 100 Marks

I. Essay Questions:

(2 x 10 = 20)

1. Classify medically important fungi and write in detail the laboratory diagnosis of fungi.
2. Discuss in detail the principle, methodology, merits and demerits of RT – PCR.

II. Short Questions:

(8 x 5 = 40)

1. Gene cloning.
2. Opportunistic parasitic infections in AIDS.
3. Cryptococcus neoformans.
4. Microbiome.
5. Bacteriology of Air.
6. Line probe assay.
7. Bacterial food poisoning.
8. Hydroclave.

III. Reasoning Out:

(4 x 5 = 20)

1. Laboratory workers are cautioned not to open fluffy white molds unless they are placed inside a biological safety cabinet.
2. Biomedical waste management is mandatory in health care settings.
3. Formaldehyde gas used in theatre sterilization is to be neutralized with ammonia.
4. Sterile solutions containing endotoxins can cause serious illness.

IV. Very Short Answers:

(10 x 2 = 20)

1. McFarland standard.
2. Pentavalent vaccine.
3. Gnotobiotic animal.
4. Causative agent of white piedra.
5. Air sampling methods.
6. Chlamydospore.
7. Endothrix.
8. Paradoxical carrier.
9. Skirrow's medium.
10. Shell viral assay.
