2018

CBCS

3rd Semester

MICROBIOLOGY

PAPER—C6T

(Honours)

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.

Cell Biology

1. Answer any *five* questions : 5×2

   (a) What is peptidoglycan ? Mention it's location. 1+1

   (b) What is ribophorin ? 2

   (c) Mention the location and function of chaperon. 2

(d) What do you mean by 'O' type glycosylation ? 2

(e) 'The organs which are association with secretory function, rich in Golgi Apparatus' — Why ? 2

(f) Mention the location and function of F_1 particle. 2

(g) Define nucleosome. 2

(h) Distinguish between histone and non histone protein. 2

2. Answer any *four* questions : 4×5

(a) How do cell membrane remains fluid ?

(b) Mention the different stages and check points of cell cycle. What is G_0 ? 3+2

(c) Write down the process of glycosylation in Golgi complex ? 5

(d) Distinguish between Prokaryotic and Eukaryotic Ribosome. 5

(e) What is a glycocalyx ? Mention its function. 3+2

(f) Mention the location and function of signal peptidase. 3+2

(Continued)

3. Answer any *one* question : 1×10

(a) What are G proteins and mention their role in signal transduction. 2+8

(b) (i) Mention the structural differences between proto oncogene and oncogene.

(ii) What role of phosphatases play in signal pathway ? 4+6

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