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SEAT No. _____

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SARDAR PATEL UNIVERSITY

B.Sc. EXAMINATION SEMESTER-V CODE : US05CBOT03

SUBJECT : MICROBIOLOGY, MICROTECHNIQUE AND FORESTRY (BOTANY)

DATE : 26/10/2018 FRIDAY Time : 10:00 A.M. TO 1:00 P.M. Total marks : 70

Q. 1 Multiple Choice questions.

10

- 1 Bacteria was first discovered by A.V. Leeuwenhoek in :
(a) 1775 (b) 1675 (c) 1575 (d) 1757
- 2 Adolf meyer has reported the first time disease by virus in
(a) Plants (b) Animals (c) Bacteria (d) Human
- 3 The organism capable of destroying bacterial colonies is
(a) Virion (b) Viroid (c) Virus (d) Prion
- 4 is a fair killing and fixing fluid.
(a) Brazilin (b) Carmine (c) Congored (d) Absolute Ethyl Alcohol
- 5 Which one of the following is a Natural dye?
(a) Saffranine (b) Congo red (c) Methyleneblue (d) Hematoxylin
6. The gross structure of wood is determine by :
(a) Tracheids (b) Sapwood and Heartwood (c) Fibers (d) Tyloses
7. Soft fibers are obtained from :
(a) Leaf (b) Seed (c) Root (d) Stem
- 8 Which one of the following is a Oil type preservative.
(a) Copper-sulphate (b) Creosote (c) Zinc-chloride (d) Ascu
- 9 A board constituted from wood and lingo-cellulose materials is :
(a) Ply wood (b) Laminated board (c) Particle board (d) Fiber board
- 10 The vulcanized rubber was discovered by :
(a) Charles Goodyear (b) Priestly (c) Mackintosh (d) Christopher

Q. 2 Answer in short (Attempt any ten).

20

- 1 What are the gram positive bacteria?
- 2 Write the significance of Viruses.
- 3 Discuss : Actinomycetes in brief.
- 4 Discuss the coal-tar dye with suitable example.
- 5 What is embedding?
- 6 Discuss : Smear method.
- 7 Define: Sapwood and Heartwood.
- 8 Write the common source and uses of Dyes.
- 9 Write the uses of Resin.
- 10 What is Cutch and Katha.
- 11 Write the uses of Charcoal.
- 12 Write the uses of Rubber.

(1)

(PTO)

- Q. 3 (A) Describe : Transformation in Bacteria. 05
(B) Describe : Lytic cycle in Virus. 05
OR
- Q. 3 (A) Describe the general structure of Virus 06
(B) Discuss : Asexual reproduction in Bacteria. 04
- Q. 4 (A) Maceration of Plant tissue. 05
(B) Discuss: Natural dyes. 05
OR
- Q. 4 (A) What are fixatives? state any one fixative used in fixation. 05
(B) Discuss: Dehydration in brief. 05
- Q. 5 (A) What are wood preservatives? discuss Water soluble wood preservatives. 06
(B) Write the uses of wood. 04
OR
- Q. 5 (A) Discuss: wood Seasoning. 06
(B) Write sources and uses of Palmrosa oil. 04
- Q. 6 (A) Write the process of manufacture of Plywood. 06
(B) What is composite wood and improved wood? 04
OR
- Q. 6 Write the suitable source, process of paper making and uses of Paper. 10

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(2)