| Enrollment No: | Exam Seat No: |
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C.U.SHAH UNIVERSITY

Summer Examination-2018

Subject Name : Medical Laboratory Techniques

Subject Code : 4SC05MLT1 Branch: B.Sc. (Microbiology)

Semester: 5 Date: 27/03/2018 Time: 10:30 To 01:30 Marks: 70

Instructions:

- (1) Use of Programmable calculator & any other electronic instrument is prohibited.
- (2) Instructions written on main answer book are strictly to be obeyed.
- (3) Draw neat diagrams and figures (if necessary) at right places.
- (4) Assume suitable data if needed.

| Q-1 | | Attempt the following questions: | (14) |
|-------|------------|--|------|
| | a) | Give full form of NABL. | (1) |
| | b) | Define: Resolution. | (1) |
| | c) | Name Dye used for visualization of DNA. | (1) |
| | d) | What are percentage of Plasma in Blood? | (1) |
| | e) | Define: Quality Control. | (1) |
| | f) | What is Beer- Lambert's Law? | (1) |
| | g) | Define: Thrombocytopenia | (1) |
| | h) | What is Decalcification? | (1) |
| | i) | Define: Erythropoiesis. | (1) |
| | j) | Define : Neutropenia | (1) |
| | k) | Blood Grouping method was discovered by? | (1) |
| | 1) | HE stands for ? | (1) |
| | m) | Enlist types of WBC. | (1) |
| | n) | Name an general fixative used to fix tissue samples. | (1) |
| Atten | npt any f | our questions from Q-2 to Q-8 | |
| Q-2 | | Attempt all questions | (14) |
| | a) | Explain in detail the Principle of Centrifugation. | (7) |
| | b) | Write Brief note on Leukemia. | (7) |
| Q-3 | | Attempt all questions | (14) |
| Q-3 | a) | Write a note on Colorimetry. | (7) |
| | b) | Brief note on Anemia. | (7) |
| | D) | Die note on memu. | (1) |
| Q-4 | | Attempt all questions | (14) |
| | a) | Write a note on Waste Management & Medicolegal problems. | (4) |
| | b) | Brief note on Five 'Q' Framework. | (7) |



| | c) | Write short note on Blood Preservation. | (3) |
|-----|------------|---|------|
| Q-5 | | Brief Note on Histopathology and the Techniques involved in it. | (14) |
| Q-6 | | Brief Note on Composition of Blood and Erythropoiesis process. | (14) |
| Q-7 | | Attempt all questions | (14) |
| | a) | Define Total Quality Management. Enumerate the Benefits of TQM. | (6) |
| | b) | Write short note on Blood Transfusion. | (3) |
| | c) | Define Flow Cytometry and Write its Applications/Uses. | (5) |
| Q-8 | | Attempt all questions | (14) |
| - | a) | Brief note on Thalassemia. | (7) |
| | b) | Write note on Accreditation and Certification. | (3) |
| | c) | Write short note on Six Sigma process. | (4) |

