PSG COLLEGE OF ARTS & SCIENCE

(AUTONOMOUS). '~

. BSc DEGREE EXAMINATION. MAY 201714 BcV (Q / I^Bcon , . (Third Semester) -

Branch - BIOCHEMISTRY

BIOCHEMICAL TECHNIQUES

Time: Three Hours Maximum: 75 Marks

SECTION-A (20 Marksl

Answer ALL questions

ALL questions carry EQUAL marks $(10 \times 2 = 20)$

- 1 What is Reference electrode?
- 2 Mention the application of buffer.
- 3 Define wavelength and wave number.
- 4 Define absorption spectra.
- 5 Mention the advantage of TLC.
- 6 Write a note on zonal rotors.
- 7 . Define the term 'Retention time'.
- 8 What are primary fluors?
- 9 Define radioactivity.
- 10 Define sedimentation rate.

SECTION - B (25 Marks)

Answer ALL Questions

ALL Questions Carry EQUAL Marks (5 x 5 - 25)

1 1 a Write a note on buffer system of blood.

OR

b How is P^H measured using P^H meter?

12 a Discuss the Difference between spectrophotometer and colorimeter.

OR

b Write a note on monochromators of spectrophotometer.

13 a Give an account on paper chromatography.

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b Write a note on Detectors of Gas liquid chromatography.

14 a Give an account on different types of centrifuge.

OR

b Write a note on agarose gel electrophoresis.

15 a Give a note on quenching and its types.

OR

b Explain the various units of radio activity.

SECTION - C (30 Marks)

Answer any THREE Questions '

ALL Questions Carry EQUAL Marks* (3 x 10 = 30)

- Write a note on the following
 - 1. Hydrogen electrode 2. Calomel electrode
- 17 Enumerate the principle and application of flame photometry.
- Give a detailed account on Gel permeation chromato graphy and its application.
- Explain the major components and application of analytical ultracentrifuge.
- 20 Give a detailed account on liquid scintillation counter.

Z-Z-Z

END