

18PGDIS05/15PGDIS05
PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)
PG DIPLOMA EXAMINATION MAY 2019
(Second Semester)

Branch - INDUSTRIAL SAFETY

INDUSTRIAL HYGIENE & OCCUPATIONAL HEALTH

Time : Three Hours

Maximum : 60 Marks

SECTION-A

Answer **ALL** questions

ALL questions carry **EQUAL** marks (5 x 5 = 25)

- 1 a Explain the steps in combining sound pressure levels of many sources.
OR
b Distinguish between ionizing radiation and non-ionizing radiation with examples.
- 2 a State the reasons for conducting industrial hygiene sampling.
OR
b Describe the adverse effects of exposure to carbon monoxide.
- 3 a What is kyphosis? How is it caused? Explain briefly.
OR
b What are the occupations and workplaces in which workers are exposed to biological hazards?
- 4 a Write a note on pre-employment medical examinations.
OR
b What is Health? What is its spectrum? Describe briefly.
- 5 a How will you determine work capacity of a worker? Explain.
OR
b Distinguish between static anthropometry and dynamic anthropometry.

SECTION - B

Answer **ALL** Questions

ALL questions carry **EQUAL** marks (5 x 7 = 35)

- 6 a What are octave bands of sound? How are they analyzed? What is the purpose of its analysis? Explain.
OR
b How will you control heat stress in industries by engineering measures? Explain.
- 7 a Describe the various air sampling strategies.
OR
b Explain how the chemical hazards can be controlled in industries.
- 8 a Explain the illness and disease caused by various biohazardous agents.
OR
b How can the buildings be designed to minimize ergonomical hazards? Explain.
- 9 a Explain the acute and chronic effects of chromium.
OR
b Explain the importance of vital function tests and how they are carried out?
- 10 a Explain in detail the First-Aid treatments for different injuries in an