CP–6463	Sub. Code
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P.G. DIPLOMA EXAMINATION, NOVEMBER 2015

Occupational Health Safety Management

ORGANISATIONAL BEHAVIOUR

Time : 3 Hours   Maximum : 75 Marks

Part A   (5 × 3 = 15)

Answer **all** questions.

1. Define Organizational citizenship behaviour.

2. Define job satisfaction.

3. What do you mean by emotional intelligence?

4. Write the different types of group.

5. Define politics.

Part B   (5 × 12 = 60)

Answer **all** questions.

6. (a) Discuss in detail the challenges and opportunities for OB.

Or

   (b) Describe foundation of individual behaviour and explain the roles for manager.

7. (a) How do you measure employee attitudes and job satisfaction?

Or

   (b) Explain attribution theory and decision making model.

8. (a) Write a short note on work environment and its importance in improving employee involvement.

Or

(b) Discuss in detail about training methods available to train a new employee.

9. (a) Explain principles of an effective team. Differentiate Team from group.

Or

(b) Explain the barriers to effective communication in an organisation.

10. (a) Discuss in detail about contemporary models.

Or

(b) What is politics? What are the factors influencing political behaviour?

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P.G. DIPLOMA EXAMINATION, NOVEMBER 2015

Occupational Health Safety Management

PRINCIPLES OF SAFETY MANAGEMENT

Time : 3 Hours   Maximum : 75 Marks

Section A   ($5 \times 3 = 15$)

Answer **all** questions.

1.   Briefly explain safety survey.

2.   What is safety incentive scheme?

3.   Write short notes on domino sequence.

4.   Explain temporary partial disability and temporary total disability.

5.   Write about safety pledge.

Section B   ($5 \times 12 = 60$)

Answer **all** questions.

6.   (a)   Describe in detail the various safety management systems.

Or

      (b)   Formulate the criteria for evaluating the performance of supervisors on safety.

7. (a) Explain the components and types of safety audit.

Or

(b) Develop an Inspection check list to identify the unsafe act of workers and unsafe conditions in the shop floor.

8. (a) Explain - Accident concept theory of H. W Heinrich and Frank E Bird in detail.

Or

(b) Explain principles of accident prevention in detail.

9. (a) From the given data find out the safety performance indicators.

Description of incident	Year 2011	Year 2012
Number of CT injuries	09	10
Number of near misses	20	25
Number of fatalities	03	02
Total number of workers	310	250
Number of lost days	08	08
Number of days worked	215	230

    (i) Calculate FR, SR and IR for both years

    (ii) Which year is better with respect to FR

    (iii) Which year is with respect to SR.

Or

(b) A company has 17 full time employees and 3 part time employees that each work 20 hours per week. If the company experience 2 recordable injuries and 5 lost workdays. Calculate incident rate and severity rate.

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10. (a) Explain the initiatives of private consulting agencies in safety training.

Or

(b) Explain the different types of training methods for safety training.

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P.G. DIPLOMA EXAMINATION, NOVEMBER 2015

OCCUPATIONAL HEALTH SAFETY MANAGEMENT

INDUSTRIAL SAFETY MANAGEMENT

Time : 3 Hours   Maximum : 75 Marks

Section A   (5 × 3 = 15)

Answer **all** questions.

1.   Define propellants.

2.   List the benefits of good guarding systems.

3.   What is gas welding?

4.   Define electro plating.

5.   What is short term action plan?

Section B   (5 × 12 = 60)

Answer **all** questions.

6.   (a)   Write in detail about the facilities to be provided for safe location for explosives and propellants.   (12)

Or

(b)   Explain about the safe layout nuclear power stations and refineries.   (12)

7. (a) Explain detail about the various types of machine guarding.

Or

    (b) Explain about the selection and suitability for shearing and sprockets wheels.

8. (a) Discuss about the gas welding and oxygen cutting.

(12)

Or

    (b) Write short note on :

         (i)   Flashback arrestor   (6)

         (ii) Leak detection.   (6)

9. (a) Explain detail about the heat treatment operations in sand and shot blasting.   (12)

Or

    (b) Explain about the air leak test and steam testing.

(12)

10. (a) Write about the scope, specifications and elements of OH and S management system.   (12)

Or

    (b) Discuss about the objective and various methodology to be followed in developing short term action plan.   (12)

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P.G. DIPLOMA EXAMINATION, NOVEMBER 2015

OCCUPATIONAL HEALTH AND SAFETY MANAGEMENT

Time : 3 Hours   Maximum : 75 Marks

Part A $(5 \times 3 = 15)$

Answer **all** questions.

1. Define noise. What are the compensation aspects of noise?

2. What are the types of air sampling instruments available?

3. Explain about the biohazard control program.

4. What are the effects and prevention of notable diseases?

5. How evaluation of physiological requirements of jobs are done?

Part B $(5 \times 12 = 60)$

Answer **all** questions.

6. (a) Write in detail about the types, effects of control programs of ionizing radiation.

Or

(b) Explain in detail about the noise surveys and noise control program.

7. (a) Write short notes on :

   (i) Vapour

   (ii) Fog

   (iii) Mist

   (iv) Fumes.

   Or

   (b) Brief in detail about the design maintenance considerations in methods of control.

8. (a) Write briefly about the classification of bio hazardous agents.

   Or

   (b) Briefly explain about the work related muscoskeletal disorders.

9. (a) Write the short notes on :

   (i) Silicosis

   (ii) Asbestosis

   (iii) Anthracosis

   (iv) Anthrax.

   Or

   (b) Briefly explain about carrinogens entry into human systems.

10. (a) What are the requirements of jobs in evaluation of physiology? Explain.

   Or

   (b) Briefly explain about categorization of job heaviness.

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		15

P.G. DIPLOMA EXAMINATION, NOVEMBER 2015

Occupational Health Safety Management

FIRE PREVENTION AND CONTROL

Time : 3 Hours　　　　　　　　　　Maximum : 75 Marks

Part A　　　　　　　(5 × 3 = 15)

Answer **all** questions.

1. Define vapor clouds.

2. Explain fire watcher.

3. Mention the flammable liquids.

4. What is meant by structural fire protection?

5. Write short notes on blast waves.

Part B　　　　　　　(5 × 12 = 60)

Answer **all** questions.

6. (a) Explain the Shock waves and pool fires.

Or

(b) State the theory of combustion and explosion.

7. (a) Describe the hydrants pipes and hoses.

Or

(b) State the fire alarms and sirens.

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8. (a) Discuss the special fire suppression systems.

Or

(b) Explain Dry chemical powder systems and smoke venting.

9. (a) Describe fire resistant material and fire testing methods.

Or

(b) Explain the fire safety requirements for high rise buildings.

10. (a) State the petroleum act and explain.

Or

(b) Mention clearly about the explosion parameters.

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P.G. DIPLOMA EXAMINATION, NOVEMBER 2015

Occupational Health Safety Management

ENVIRONMENTAL SAFETY

Time : 3 Hours   Maximum : 75 Marks

Section A   (5 × 3 = 15)

Answer **all** questions.

1.   What is stack emissions?

2.   Write classification of water pollutants.

3.   Brief on PH meter.

4.   Write short on atomic absorption.

5.   What is Eco - friendly Energy?

Section B   (5 × 12 = 60)

Answer **all** questions.

6.   (a)   Explain automobile exhausts and Chemical factory stack emissions.

Or

     (b)   Explain automobile pollution, hazards of air pollutions.

7.   (a)   What are the health, hazards of water pollutions?

Or

     (b)   Explain advanced waste water treatment.

8. (a) Explain about methods of collection and disposal of solid waste.

Or

(b) Explain radioactive wastes incineration and vitrification.

9. (a) Explain about Dust monitor gas analyzer.

Or

(b) Explain about Pollution Control Board laws.

10. (a) Explain about Pollution Control in process Cement Industries.

Or

(b) How Pollution Control in process in dying and pigment industries.

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