

**CP-8801**

**Sub. Code**

**21**

**M.B.A. DEGREE EXAMINATION, APRIL 2018**

**Second Semester**

**Environment and Industrial Safety**

**HUMAN RESOURCE DEVELOPMENT AND  
MANAGEMENT**

**(2017 onwards)**

Time : 3 Hours

Maximum : 75 Marks

**Part A**

(10 × 2 = 20)

Answer **all** questions.

1. Define Human Resource Management.
2. What is personal management?
3. What is meant by job design?
4. Define career planning.
5. Write short note on "HR Audit".
6. What is exit Interview?
7. Differentiate between financial and non-financial incentives.
8. Define stress management.
9. What is globalisation business?
10. Define grievance management.

**Part B** (5 × 5 = 25)Answer **all** questions.

11. (a) Describe the objective and function of Human Resource Management.

Or

- (b) Discuss the approaches of HRM.

12. (a) Analyse the methods of Recruitment.

Or

- (b) Briefly discuss about the process of selection.

13. (a) Explain the various measure of employee health.

Or

- (b) What are the main areas of human resource audit? Explain them.

14. (a) Discuss about empowerment and participation.

Or

- (b) Write short note on health management.

15. (a) Explain detail about impact of globalisation.

Or

- (b) Describe about International HR strategy linkage.

**Part C** (3 × 10 = 30)Answer **all** questions.

16. (a) Explain the job evaluation and analysis.

Or

- (b) Discuss the importance of HRM and explain the objectives with examples.

17. (a) Explain performance appraisal and discuss its relevance of employees compensation.

Or

- (b) How organisational strategies are closely linked with HR strategy? Discuss.

18. (a) Explain the Human Resource Development system.

Or

- (b) Write short note on :

- (i) Two factor theory (5)  
(ii) Heizenberg theory. (5)

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**M.B.A. DEGREE EXAMINATION, APRIL 2018**

**Second Semester**

**Environment and Industrial Safety**

**EHS LAWS**

**(2017 onwards)**

Time : 3 Hours

Maximum : 75 Marks

**Part A**

(10 × 2 = 20)

Answer **all** questions.

1. What is objective of factories Act 1948?
2. Write any four provisions of factories Act 1948.
3. What is meant by occupational diseases?
4. Define master roll.
5. What is the importance of wages register?
6. What is the scope of the water Act 1974?
7. What are the rules and regulations guiding waste management in Indian?
8. How do you practice waste management at time?
9. Define Boiler.
10. What is meant by economizer?

**Part B**

(5 × 5 = 25)

Answer **all** questions.

11. (a) Explain about the provisions regarding hazardous process.

Or

- (b) Explain the provisions of working hours and adults in factories.

12. (a) What are the employee welfare facilities? Explain.

Or

- (b) List out the some notifiable diseases.

13. (a) Write down the function of State Board for waste act.

Or

- (b) What are the function of Central Board for Air Act?

14. (a) What are the different types of waste? Explain.

Or

- (b) Enumerate the principles of solid waste management.

15. (a) Write down the limitation of application in Boiler Act.

Or

- (b) What is disablement? Explain them.

**Part C**

(3 × 10 = 30)

Answer **all** questions.

16. (a) What is the role of Central Board for the prevention and control of air pollution? Explain them.

Or

- (b) Explain the bio medical waste management and handling rules.

17. (a) Explain the function of Central Board for prevention and Control of water pollution.

Or

- (b) Briefly explain the manufacture storage and import of Hazardous chemicals.

18. (a) Write short notes on

- (i) Entitlement.
- (ii) Employer's liability.

Or

- (b) What are the effects of noise pollution? Explain them.
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**M.B.A. DEGREE EXAMINATION, APRIL 2018**

**Second Semester**

**Environment and Industrial Safety**

**ELECTRICAL SAFETY**

**(2017 onwards)**

Time : 3 Hours

Maximum : 75 Marks

**Part A**

(10 × 2 = 20)

Answer **all** questions.

1. What is the working principle of electrical equipment?
2. Define electro magnetism.
3. Define lighting arrester.
4. What is meant by energy leakage?
5. Define short circuit.
6. What is meant by FRLS insulation?
7. What are uses of portable tools?
8. Name any five hazardous of electrical.
9. What is lock out?
10. Define hazardous zone.

**Part B**

(5 × 5 = 25)

Answer **all** questions.

11. (a) Explain about electro magnetism.  
Or  
(b) Write about Cardio pulmonary resuscitation.
12. (a) Briefly explain the primary and secondary hazards.  
Or  
(b) Explain the classification of voltage.
13. (a) Write short notes on system grounding.  
Or  
(b) Briefly note on ELCB.
14. (a) Describe about work permit system.  
Or  
(b) Explain about cabling and cable joints.
15. (a) Explain the classification of hazardous zones.  
Or  
(b) Enumerate the temperature classification.

**Part C**

(3 × 10 = 30)

Answer **all** questions.

16. (a) Write short notes on
- (i) Stored energy. (3)
  - (ii) Energy radiation. (3)
  - (iii) Electro magnetic interference. (4)
- Or
- (b) Explain about over current and short circuit current.



17. (a) What are the international standards on electrical safety? Explain them.

Or

- (b) Explain the rules of Indian Electricity Act.

18. (a) Briefly explain electrical causes of fire and explosion.

Or

- (b) What are the functional requirements of an earth system? Explain them.
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**M.B.A. DEGREE EXAMINATION, APRIL 2018**

**Second Semester**

**Environment And Industrial Safety**

**CHEMICAL SAFETY**

**(2017 onwards)**

Time : 3 Hours

Maximum : 75 Marks

**Part A**

(10 × 2 = 20)

Answer **all** questions.

1. What is the “design process”?
2. Define — “chemical reactors”
3. List out the types of “commissioning documentation”
4. Define “pressure vessel”.
5. What is the “handover and permit system”?
6. What is meant by trip system?
7. Define — purging.
8. What is the “online repairs”?
9. Define — “LPG” and “LNG”.
10. Write the some measures of “ammonia” and “chlorine”?

**Part B**

(5 × 5 = 25)

Answer **all** questions.

11. (a) Briefly explain “conceptual design and “detail design”.

Or

- (b) Briefly describe the “failures in pressure systems”.

12. (a) Write the concepts of “commissioning phases and organization”.

Or

- (b) Briefly explain — “pipeline inspection’.

13. (a) Write short notes on :

(i) Plant operating procedure.

(ii) Plant inspection

Or

- (b) Briefly explain — “operation of fired heaters”.

14. (a) Briefly describes “Management of maintenance”.

Or

- (b) Write the short notes on –maintenance equipments.

15. (a) Briefly explain — “Refrigerated Storages”.

Or

- (b) Write the short describes of “Ware House”?

**Part C**

(3 × 10 = 30)

Answer **all** questions.

16. (a) Explain in detail — “pressure vessel design and its standards and codes”.

Or

- (b) Write short notes.

- (i) NDT
- (ii) Pressure testing
- (iii) Leak testing.

17. (a) Write short notes on

- (i) Emergency procedures in plant operations.
- (ii) Operating activities and hazards.

Or

- (b) Explain preparation procedures for maintenance and its isolation, purging, cleaning.

18. (a) Write the short notes about below plant operations.

- (i) APELL
- (ii) Maintenance of protective devices.
- (iii) LPG storages

Or

- (b) Explain in detail— “storage hazard assessment”

- (i) Toxic storages.
  - (ii) Underground storages.
  - (iii) Hydrogen storages.
  - (iv) Drum and cylinder storages.
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<b>25A</b>
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**M.B.A. DEGREE EXAMINATION, APRIL 2018**

**Second Semester**

**Environment and Industrial Safety**

**SAFETY IN OIL AND GAS INDUSTRY**

**(2017 onwards)**

Time : 3 Hours

Maximum : 75 Marks

**Part A**

(10 × 2 = 20)

Answer **all** questions.

1. List out the oil and gas industry sector.
2. Define occupational stress.
3. Define root cause analysis.
4. What are the types of HAZOP?
5. Define situation awareness.
6. Write any five accident related causes in offshore.
7. Define human factor and human error.
8. Write the human error occurrence reasons.
9. Define RIDDOR.
10. Write the applications of WOAD.

**Part B****(5 × 5 = 25)**Answer **all** questions.

11. (a) Explain in detail about safety management principles.

Or

- (b) Write in detail about consequence of human error and human error classifications.

12. (a) Explain in detail about interface safety analysis.

Or

- (b) Briefly explain the preliminary hazard analysis.

13. (a) Write short notes on piper alpha accident case study.

Or

- (b) Write short notes on ocean ranger accident case study.

14. (a) Write short notes on human factors that affect safety in oil and gas industry.

Or

- (b) Explain in detail about categorization of human factors in other industry.

15. (a) Write about WOAD.

Or

- (b) Write the short notes on well control incident database.

**Part C**

(3 × 10 = 30)

Answer **all** questions.

16. (a) Explain in detail about accident causation theories.

Or

- (b) Explain in detail about product hazard classification in dangerous goods.

17. (a) Write in detail about failure mode effect analysis.

Or

- (b) Explain in detail about fault tree analysis.

18. (a) Write in detail about recommendation to reduce fatal oil and gas industry accidents.

Or

- (b) Explain the failures and lessons learned from landmark offshore oil and gas accidents.
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