



BHARAT SEVAK SAMAJ

NATIONAL DEVELOPMENT AGENCY, PROMOTED BY GOVERNMENT OF INDIA

CENTRAL BOARD OF EXAMINATIONS

BSS NATIONAL VOCATIONAL EDUCATION MISSION

FSS011-CERTIFICATE IN FIRE & SAFETY ENGINEERING TECHNIQUES

SIX MONTHS EXAMINATION NOV-2015

FSS011-01 COMMUNICATIVE ENGLISH AND COMPUTER FUNDAMENTALS

TIME: 3 Hours

Marks: 100

INSTRUCTIONS

- * 33 questions are there in total
- * Write answers to each question in proportion to the mark allotted
- * During the first 15 minutes read the questions carefully

I. FILL IN THE BLANKS

1 x 10 = 10

- 1) You Loved me.
- 2) TCP is
- 3) website is group of
- 4) Hybrid computer is used for
- 5) You can enlarge a document using
- 6) is a folder, stores the deleted files
- 7) Below the menu bar bar appears
- 8) Computers can only understand language
- 9)generation computer used to integrated circuits.
- 10) Who is invented slide rule-----

II. DEFINE THE FOLLOWING

2 x 10 = 20

- 1) Define what is demonstrative pronoun?
- 2) Define kinds of verbs?
- 3) What is input and output unit
- 4) E-mail use?
- 5) What are the Operating System?
- 6) Write short notes on Super Computer
- 7) Explain Header and Footer
- 8) Subordinate clause
- 9) MS Access
- 10) Insert column and insert chart

III. WRITE BRIEF ANSWER FOR ANY 5 QUESTIONS**5 x 5 = 25**

- 1) Explain 'WH' type question words?
- 2) Explain few sentences using "should would"?
- 3) Define kinds of nouns?
- 4) Explain Arithmetic logic unit
- 5) Use of 'has' and 'have' in sentences
- 6) Explain any five options for the format 'menu'
- 7) Tool bar
- 8) Airbrush

IV. WRITE LONG ANSWER FOR ANY 3 QUESTIONS**15 x 3 = 45**

- 1) Write a letter to the station master requesting him to reserve two coaches for your school excursion party
- 2) Explain MS Excel
- 3) Introduction to Pagemaker? Explain
- 4) Explain the keyboard
- 5) Draw the block diagram of basic computer organisation and explain?



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SIX MONTHS EXAMINATION NOV-2015

FSS011-02 BASIC SAFETY ENGINEERING

TIME: 3 Hours

Marks: 100

INSTRUCTIONS

- * 33 questions are there in total
- * Write answers to each question in proportion to the mark allotted
- * During the first 15 minutes read the questions carefully

I. FILL IN THE BLANKS

1 x 10 = 10

- 1) _____ is a safe place from where the works main controller directs emergency actions.
- 2) _____ study is a technique adopted by chemical, problem and gas industries to identify the risks
- 3) For erection and dismantling of scaffolds above 1.8m in height, which permit is issued? _____
- 4) What are the types of water relay
- 5) For what purpose chair knot is used
- 6) The fault rupture generates vibration called _____
- 7) An _____ is the result of a sudden release of energy in the earth crust that creates seismic waves.
- 8) Employer responsibilities under WHMIS include ensuring.
- 9) Animals and human foodstuffs should not be loaded in the same vehicle with _____
- 10) The first stage of Interview is _____

II. DEFINE THE FOLLOWING

2 x 10 = 20

- 1) Define PPE?
- 2) What are the three basic principles of fire control?
- 3) What is BLEVE stands for
- 4) FTA means
- 5) Any space with restricted access or egress where hazardous gases, vapour, dust, fumes may accumulate or where Oxygen may be deficient is known
- 6) Explain what do you understand by the concept of operation management of disaster?
- 7) List out any two roles of media during disaster?
- 8) What is manmade disaster?
- 9) What id drought?
- 10) Are 'hazardous substances' and 'dangerous goods' the same thing?

III. WRITE BRIEF ANSWER FOR ANY 5 QUESTIONS**5 x 5 = 25**

- 1) What are the effective functions towards safety?
- 2) Explain the accident theory of Hein Reich?
- 3) What are the safety rules for crane drivers?
- 4) How will you maintain small gear
- 5) What are the general characteristics of a cyclone?
- 6) Describe the necessity of Risk identification and Assessment Surveys while planning a project.
- 7) List out the public emergency services available in the state, which could be approached for help during a natural disaster.
- 8) What is the cause for Earthquakes? How they are measured? Which parts of India are more vulnerable for frequent earthquakes?

IV. WRITE LONG ANSWER FOR ANY 3 QUESTIONS**15 x 3 = 45**

- 1) Explain- Work Permit System and create Work Permit Form?
- 2) What are earthquakes? List out the causes of an earthquake.
- 3) Explain in detail atleast five possible risk reduction measures for floods?
- 4) How tremors are occurring? Describe the safe design of building to over come this?
- 5) How vulnerability analysis is conducted?



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SIX MONTHS EXAMINATION NOV-2015

FSS011-03 FIRE PREVENTION AND CONTROL

TIME: 3 Hours

Marks: 100

INSTRUCTIONS

- * 33 questions are there in total
- * Write answers to each question in proportion to the mark allotted
- * During the first 15 minutes read the questions carefully

I. FILL IN THE BLANKS

1 x 10 = 10

- 1) The fire goes from _____ controlled to _____ controlled
- 2) The amount of heat generated is measured in _____ units
- 3) _____ are the foundation of all substances
- 4) The S.I unit of heat is the _____
- 5) Define safety
- 6) Average illumination of worker above 40 years of age is a) 1/2 to 1/3 b) 1/3 to 1/5 c) 2 to 5
d) 1/4 to 1/6
- 7) _____ can be defined as an immediate and essential care given to a person who is injured or suddenly taken ill, before he is transported to Hospital. a) safety survey b) safety audit c) First aid d) JSA
- 8) What is called "Respiratory Arrest"? a) Lungs stop working b) Heart collapse c) Spleen malfunction d) Nose blockage
- 9) _____ helps to prevent fires.
- 10) The term _____ means the point at ground level directly above the hypocenter.

II. DEFINE THE FOLLOWING

2 x 10 = 20

- 1) Name two types of fire hydrants?
- 2) What are the foam making equipments?
- 3) What is energy?
- 4) What is hydrant?
- 5) What are the two categories of sprinkler head?
- 6) List out any 5 disaster information providers?
- 7) What are the causes for fire accidents? Specify the remedial measures to be taken in buildings to avoid fire accidents.
- 8) Define Disaster Management.
- 9) Define risk transfer?
- 10) Write any two benefit of loss control programme?

III. WRITE BRIEF ANSWER FOR ANY 5 QUESTIONS**5 x 5 = 25**

- 1) Briefly about the causes of deterioration of ropes?
- 2) what are the elements of bends and hitches?
- 3) What are the steps to follow to use a portable fire extinguisher?
- 4) Explain Dry Riser System?
- 5) Give a short note on Wet Riser System?
- 6) What is the importance of conducting camps in Events Management?
- 7) What are the difficulties faced by an Industry when there is a sudden power failure?
- 8) Describe the importance of insurance to men and machinery of an Industry dealing with dangerous jobs.

IV. WRITE LONG ANSWER FOR ANY 3 QUESTIONS**15 x 3 = 45**

- 1) Explain about the study of chemistry of fire?
- 2) How the breathing apparatus should be maintained?
- 3) Explain types of Disasters
- 4) How tremors are occurring? Describe the safe design of building to overcome this?
- 5) Describe the various biological hazards?



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SIX MONTHS EXAMINATION NOV-2015

FSS011-04 OCCUPATIONAL HEALTH AND CONTROL

TIME: 3 Hours

Marks: 100

INSTRUCTIONS

- * 33 questions are there in total
- * Write answers to each question in proportion to the mark allotted
- * During the first 15 minutes read the questions carefully

I. FILL IN THE BLANKS

1 x 10 = 10

- 1) Ecosystem usually has _____ as source of energy
- 2) The example of main water pollution are _____
- 3) _____ hazards due to entering into pit, well etc.
- 4) _____ is a common cause of musculoskeletal Injuries and diseases.
- 5) Total machine safety can be classified as ?
- 6) For the use of electrical soldering irons, which permit is issued?
- 7) Maximum life for cold work permit is
- 8) As per Indian standard Is : 3646 is
- 9) Aluminum sheet has good that _____ property.
- 10) The construction phase insurance is also known as _____

II. DEFINE THE FOLLOWING

2 x 10 = 20

- 1) Explain: TVL?
- 2) Define Toxicity?
- 3) What is the causes of main water pollutions?
- 4) Define Nuisance effects?
- 5) What are the two types of dermatitis agents?
- 6) Mention some of the disease caused by bacteria?
- 7) Describe the various types of ropes used for material handling?
- 8) Define vulnerability assessment?
- 9) What is prime mover?
- 10) Define loss control?

III. WRITE BRIEF ANSWER FOR ANY 5 QUESTIONS**5 x 5 = 25**

- 1) List out some of the Indirect costs?
- 2) Explain the communicable disease for flood and its control measures?
- 3) How do occupational health measures against fatigue?
- 4) Explain the fire tetrahedron in detail
- 5) What are the health & safety problems in a hot environment?
- 6) Mention the application of ergonomics practice?
- 7) What are the simple steps for a safe and productive workplace?
- 8) What are the factors affecting the heat-balance of the body?

IV. WRITE LONG ANSWER FOR ANY 3 QUESTIONS**15 x 3 = 45**

- 1) Give a brief explanation about the types of pollution?
- 2) Explain some of the typical Home accidents?
- 3) Define Disease. Explain Communicable and Non-communicable Diseases with examples
- 4) Describe the advantages of good ventilation?
- 5) What are the general principles of machine guarding to prevent accidents?