FE103 OHS Assignment

SECTION A

Instructions: Select the best answer for the following statements and place an 'X' in the appropriate box on the answer sheet attached to this examination paper. <u>Each</u> correct answer is worth ONE mark.

- 1. Who has a role to play in ensuring the health and safety of people in their workplace?
- A. Occupational health and safety officer
- B. Everyone
- C. Managing director
- D. Work Cover inspector
- 2. Which of the following identifies the steps in managing risks in the workplace?
- A. Dismiss all employees that have had more than two accidents
- B. Nominate OH&S committee, obtain legal representation, eliminate risks
- C. Identify people that have accidents and replace them with people that don't have accidents
- D. Identify then assess hazards, eliminate or control the risk, monitor and review
- 3. When isolating a circuit at a switchboard, the isolating device should be:
- A. tagged and locked out
- B. held in the "off" position with insulation tape
- C. guarded by an assistant to ensure it is not switched on
- D. in a locked switch room
- 4. A safe work method statement is used to ensure:
- A. relevant staff know the hazards and control measures and have suitable training to safely complete the task
- B. that the supervisor has a check list of all the work to be done
- C. that the customer has a record of work done on a daily basis
- D. all aspects of the work will be completed in an economical way
- 5. Before you start work on a site that is new to you, what should take place?
- A. You should be paid a travel allowance
- B. You should be introduced to the workers on the new site
- C. All your tools and equipment should be delivered
- D. You should have a site specific induction

- 6. You will be working on a construction site and are to organize your personal protective equipment (PPE). The job requires you to be grinding and cutting brackets for a cable tray. You pack the following: full face mask, hard hat, ear muffs, and gloves. What have you forgotten?
- A. Insulating mat
- B. Steel capped boots
- C. Safety glasses
- D. High voltage rescue kit
- 7. Asbestos is a dangerous product that is still present in a lot of buildings. Asbestos can harm you in the long term if you:
- A. swallow it
- B. breathe it in
- C. allow it to come into contact with your skin
- D. get it in your eyes

- 8. In which section of the *Wiring Rules* is the information on earthing?
- A. Section 2B. Section 3
- C. Section 4
- D. Section 5
- 9. What level of current and duration of contact causes muscular cramping that may make it difficult to let go of a live cable?
- A. 300 to 500µA for less than 0.5 sec
- B. 300 to 500mA for less than 0.5 sec
- C. 10 to 50µA for less than 2 sec
- D. 10 to 50mA for less than 2 sec
- 10. Which current path through the body would most likely prove fatal?
- A. Left thumb to left index finger
- B. Right foot to left foot
- C. Left hand to feet
- D. Right hand to right elbow
- 11. If you come across an accident where power lines have been brought down, you should:
- A. stay at least 8 m clear
- B. block all traffic both ways
- C. test the cable to see if it is still live
- D. use an insulated stick to push the cables out of harm's way
- 12. Low voltage is defined as voltage:
- A. below 1000V a.c. and above 50V a.c.
- B. below 50V a.c. and 120V d.c.
- C. above 1000v a.c.
- D. below 24V a.c.
- 13. If a victim of electrocution seems to be unconscious, your first step should be to:
- A. ensure the victim is isolated from the energy source
- B. run for help
- C. immediately start mouth-to-mouth
- D. immediately start CPR
- 14. After current from an electric shock has passed through the heart it may go into a quivering spasm known as:
- A. multiple sclerosis
- B. myocardial infarction
- C. ventricular fibrillation
- D. muscular dystrophy

- 15. If a person came into contact with a 230V circuit and the impedance of the current path through his or her body was 2000Ω , the resulting current flow would be:
- A. 2.23 mA
- B. 1.7 mA
- C. 8.7 mA
- D. 115 mA
- 16. Fatalities due to incorrect wiring of plug tops and cord sets have decreased recently. One reason for this may be:
- A. all appliances now need to be double-insulated
- B. rewire able fuses have been replaced by circuit breakers
- C. flexible leads now have a larger cross-sectional area
- D. appliances now have molded plug and cord sets fitted
- 17. RCDs or safety switches are now mandatory on most socket outlet circuits. The letters RCD stand for:
- A. rolling control device
- B. restorative construct device
- C. residual current device
- D. restrictive control device
- 18. Why would someone in a damp area, such as a swimming pool or bathroom, be more susceptible to electric shock?
- A. Because their bare feet and wet skin lower their effective body resistance
- B. Because they are using electrical appliances
- C. Because there are more exposed socket outlets
- D. Because they are paying less attention
- 19. When working in a hazardous area with explosive dust, your main risk would be?
- A. Breathing in dust
- B. Keeping your clothes clean from dust
- C. Dust in your eyes
- D. An ignition source which could cause an explosion
- 20. What requirements are needed before using an elevated platform?
- A. Full tank of petrol
- B. 4 hours, worth of work
- C. Induction and training on equipment (machine)
- D. At least 2 people, 1 up top, 1 down bottom

- B. Fall from height C. Crushed between moving parts D. All of the above 22. How often should fire extinguishers be service or checked? A. Every 3 months B. Only after they have been used C. Every 12 months and whenever used D. Never 23. What information do you find on MSDS sheets attached to chemicals ,materials and substances A. How to carry safely B. How to store safely C. What PPE equipment is required D. All of the above 24. On signs for safety, which background colour indicates what you must do? A. Red B. Yellow C. Green D. Blue 25. On signs for safety, which background colour indicates a warning? A. Red B. Yellow C. Green D. Blue
- ${\bf 26.}\ Who is \ ultimately\ responsible\ for\ the\ provision\ of\ a\ safe\ workplace?$

21. Some risks involved when working from an elevated platform?

A. Inspectors

A. Vertigo

- B. Work health and safety representative
- C. Person conducting a business or undertaking
- D. Director of division of workplace health and safety
- 27 Workplace health and safety laws are necessary because they provide?
- A. A set of minimum standards to protect the health and safety of workers
- B. National standards
- C. Protection against prosecution
- D. A complete set of laws that cover every workplace situation and activity

- 28. Identify from the list below the meaning of the term 'Industrial housekeeping'
- A. Quality control
- B. Keeping workplaces and access ways clean, neat and orderly
- C. Project management
- D. Material requirement planning
- 29.A confined space is often described as a space?
- A. Which may have a contaminated atmosphere
- B. Which is not intended or designed primarily as a place of work
- C. Which may have restricted means for entry and exit
- D. All of the above
- 30 Select a potential psychological hazard from the list below?
- A. Work station design
- B. Microwaves
- C. Electrical energy
- D. Harassment

SECTION B

(30 Marks, 2 marks for each question unless other wised marked)

1. Give an example f	or each of the following hazard.	
A. Chronic Hazard		
в. Acute Hazard		
_	on an elevated platform, falling from height u need to take?	s is a risk, list
1		
2		
examples of what	red to be properly looked after and stored. G you would check before using.	iive 2
2		
4. Name 2 areas cla	ssified as confined spaces.	
1		
2		
on older installa	that electricians may have to be cautious of tions are:	when working
2		

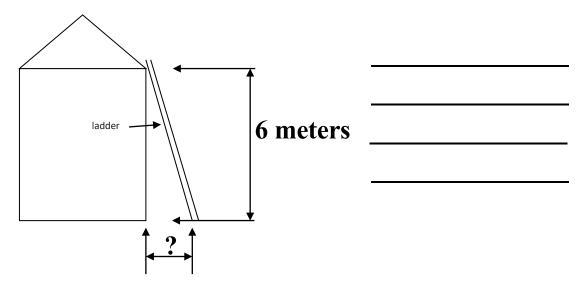
6. MSDS sheets gives information	tion, what do the letters stand for?	
M	_	
S	_	
D	_	
S	_	
7. When climbing ladders to controlling methods you	there are quite a few risks involved name 2 u would employ.	
1		
2		
8. When considering haza such controls, name 2 o	rd controls there are 5 main ways to implem ther than PPE.	nent
1		
2		
9. When manual handling you could take to reduce	a large heavy motor, describe 2 actions whice the risk of injury	ch
1		
2		
LOa. A major concern when wor above ground (e.g. insid	rking in confined spaces both underground le containers) is:	and
1		
10b. How can this concer	n be controlled or made safe to work on?	
2		

stage work in a confined space, name 2 examples of a confined space i a domestic setting.	n
1	
2	
12. Name 2 types of fire extinguishers that can be used on an electrical fire?	
1	
2	
13. Fire extinguishers need to be installed and displayed how?	
1	
2	
14. When planning to move an object by hand, list 2 things you would check before attempting.	
1	
2	
15. List 2 hazards that can cause long term effects, either physical or psychological	
1	
2	

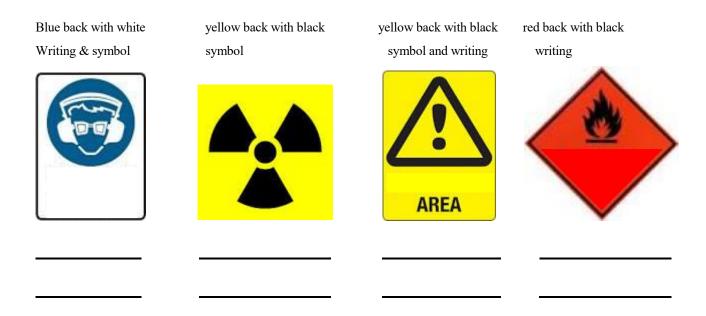
Section C (40 marks total, as shown)

 (2 marks) Name 2 substances that people take which ca adverse effect on their ability to work safely. 	n have an
1	
2	-
2. (4 marks) List 4 factors (effects) that contribute to physic	cal or
psychological problems cause by using outdoor machine incorporating laser equipment?	ry
1	
2	-
3	
4	-
3. (4 marks) For the above question (2), list for each facto overcoming the problem.	r a method foi
1	
2	-
3	
4	-

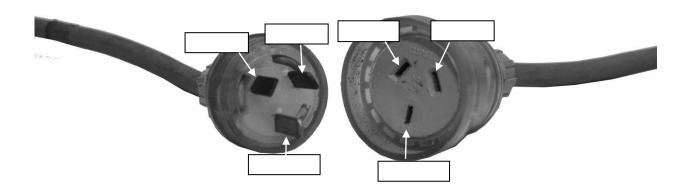
Question 4 (2 marks) From the diagram below show working out calculation for the distance the bottom (base) of the ladder needs to be from the wall.



Question 5 (4 marks) Explain what the 4 Safety signs below are telling you.



Question 6. (4 marks) Label boxes with correct polarity for a standard extension lead.



. Question 7 (10 marks)

On the next page (safe work method statement part 1) fill out required job, possible hazards, risks and risk factor for job listed below, where you are the contractor

- 1 Project is a domestic house
- 2 Job is to pre-drill holes in timber frame ready for wiring
- 3 Equipment to be used, electric drill, extension lead and a 25mm drill bit

Some holes are at a height of 1.8m (no ladder required)
(If not enough room to write turn over page and write on back)
(Risk factor level numbers to use on table below)

How likely	How severely could it hurt someone?				
is it to happen?	Extreme Death or permanent disablement	Major Serious bodily injury	Moderate Casualty treatment	Minor First aid only	
Very likely	1	2	3	4	
Likely	2	3	4	5	
Unlikely	3	4	5	6	
Very unlikely	4	5	6	7	

Question 8 (10 marks)

On the page after the SWMS page fill out Risk assessment sheet provided for job listed in question 7

Safe Workplace Method Statement (SWMS)

Question 7 (10 marks) Pre-drilling holes in timber frame

Job Activity	Hazard	Specific Risk	Risk Factor (level)

Risk Assessment

Question 8 (10 marks) Pre-drilling holes in timber frame

Job Activity	Hazard	Specific Risk	Control measures	Review Method

Student Name:	
Class:	

ANSWER SHEET

Section A – (Multi-choice Questions)

Instructions:

Enter your personal details in the top right hand corner of this sheet. Place an \mathbf{X} in box of your choice. If you make a mistake, circle your answer $\boldsymbol{\otimes}$ and choose again.

Question	A.	В.	C.	D.
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
Totals				

Question	A.	B.	C.	D.
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				
Totals				

Total	Marks	Section	A :
1 Viai	IVIAI NO	nccum	A.