

## UNIVERSITI TUN H USSEIN ONN MALAYSIA

## **FINAL EXAMINATION SEMESTER II SESSION 2017/2018**

**COURSE NAME** 

: OCCUPATIONAL SAFETY AND

HEALTH

**COURSE CODE** 

: BWU 10302

PROGRAMME CODE : BWA/BWQ

EXAMINATION DATE : JUNE / JULY 2018

**DURATION** 

: 2 HOURS

INSTRUCTION

A) ANSWER ALL QUESTIONS IN

OMR FORM.

B) SUBMIT BOTH QUESTION PAPER AND OMR FORM

THIS QUESTION PAPER CONSISTS OF TEN (10) PAGES

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QI		The main reason of realizing the safety issues at work is to								
	A.	acquire a compensation from an insurance company after an accident.								
	B.	be promoted at work.								
	C.	go home safely.								
	D.	reduce the cost of the compa	any.							
Q2	The re	equirement of a safety system	has		•					
	I.	safe system at work								
	II.	safety documentation								
	III.									
	IV.	-								
		A. I and II only		C.	II, III and IV only					
		B. I, II and III only		D.	· · · · · · · · · · · · · · · · · · ·					
Q3	Relov	ware the hazards faced at wor	k evcen	t						
QS	A.	elow are the hazards faced at work <b>except</b> Wearing aligners during leading/unleading goods								
	В.									
	C.	A tank filled with petrol is r		snot-w	relding station					
	D.	The toilet is too dirty to be		spot "						
	D.	The toffet is too diffy to be	uscu.							
Q4	The r	isk from electrical shock can l	minimised if the person	•						
	A.	regularly attend the necessary electrical course								
	В.	aware with the circuitry dia	_							
	C.	posses a licence to handle the equipment								
	D.	ensuring to use the good co	ndition (	electric	al equipment					
Q5	The c	The creation of OSHA provides this important right to workers:								
	A.									
	B.	The right to privacy.								
	C.	The right to pension benefits.								
	D.									
			17	A. M.	15 17					
<b>Q6</b>	Belov	w is a type of accidents, excep		The state of the s	11 7. 1					
	A.	Drowning	C.	Noise						
	B.	Hit by vehicle	D.	Cont	act with moving machinery					
<b>Q</b> 7	Whic	h below is a type of hazard?								
	A.	Mineral dust exposure	<b>C</b> .	Radia	ation					
	В.	Heat stress	D.	All tl	ne above					
Q8	Circu	it breaker is included in								
	A.	Electrical installation								
	B.	Mechanical installation								
	C.	Physical circuit installation	·							
	D.	None the above								

Q9	Factor	rs that effect of electric	itv haza	rds:						
	A.	Severity of electric sh		C.	Body resistance					
	B.	Duration of current fl		D.	All the above					
Q10	What	What is the meaning of "Protection from indirect contact"?								
	A.	Provides isolation to parts of equipment that has potential to release charges								
	В.	Provides isolation to parts of equipment that has potential to adsorb charges								
	C.		tive earthing to isolate glass that can charge electricity in case of							
	_	failure of the main is								
	D.		earthing to isolate metals that can charge electricity in case of							
		failure of the main isc	solator							
Q11	What	is the meaning of "Prot	tection t	from direct co	ontact"?					
VII	A.	Provides isolation to	narts of	equipment t	hat has potential to release charges					
	В.				hat has potential to adsorb charges					
	C.				ss that can charge electricity in case of					
	С.	failure of the main is		o isolate Sia						
	D.			o isolate met	tals that can charge electricity in case of					
		failure of the main iso	_		g ,					
Q12	Defin	e a mechanical work:								
	A.									
	B.		powered equipment to shift loads or goods							
	C.	• 1	equipment to lift human loads							
	D.	All the above								
Q13	Dalay	v are types of equipmer	at for m	echanical wo	ork excent					
QIS	A.	Cranes	C.	Forceps	on, except					
	В.	Hoists	D.	Dumbwaite	ers					
	Б.	1101565	2.	2 01110 110110						
Q14	The a	dvantage of mechanica	l equipi	ment used du	ring working is					
		Reduces worker ergo		risks	- Lander PD					
	В.	Worker has more tim	e to res	t	TIV A					
	C.	Decreases productivi	ty	-	PEDRUKA					
	D.	Low initial costs			TERBUKA					
015	C1									
Q15		nical hazards include:	C.	Mineral Du	i i i i i i i i i i i i i i i i i i i					
	A.	Paint	D.	All the abo						
	В.	Detergents	<i>υ</i> .	All the abo	,					
Q16	Whic	h of the following is <b>n</b> o	ot likely	direct sourc	e of ground water contamination?					
6.0	A.	Industrial effluents			<del>-</del>					
	В.	Underground leaks								
	C.	Landfill leachate								
	D.	Chemical spills								

Q17	List types of personal protective equipment (PPE):  I. Goggles III. Lab coat								
	II.	Fire ex	ktinguisher	IV.					
		A. B.	I and II only I, II and III only		C. D.	II, III and IV only I, II, III and IV			
Q18	Below	are ass	essments for eliminati	ng nhys	ical haz	ards:			
Q10	I.	low are assessments for eliminating physical hazards:  Are workers exposed to anything that can be inhaled, ingested or absorbed the body?							
	II. Is there any noise in the workplace?								
	III.	Are there any temperature extremes that could affect workers, equipment or materials?							
	IV.		orkers exposed to any	radiatio		W W == 1 W == 1-			
		A. B.	I and II only I, II and III only		C. D.	II, III and IV only I, II, III and IV			
		Д.	i, ii uiiu iii oiiij		2.	2, 22, 22 22 2			
Q19			essments for eliminating						
	I. Are workers exposed to anything that can be inhaled, ingested or absorbed into the body?								
	II.	Are al	l chemicals labelled an						
	<ul><li>III. Are there any temperature extremes that could affect workers, of materials?</li><li>IV. Are workers exposed to any radiation?</li></ul>								
		A.	I and II only		C.	,			
		B.	I, II and III only		D.	I, II, III and IV			
Q20 Below are assessments for eliminating psychosocial hazards:  I. Are individuals at risk form bullying from other employees within the control of the second sec									
					ther employees within the company?				
II. Are tasks evenly distributed to prevent one individual from exoverload?						ie marvidum nom experiencing work			
	III.		orkers exposed to any			77.4			
	IV.	Would workers be subject to vibrations?  A. I and II only  C. III III and IV only							
		В.	I, II and III only		6.4	I, II, III and IV			
Q21			sessments for eliminati			azards:			
	I. II.		orkers exposed to any			used by living things that can cause			
	11.	Are workers exposed to substances produced by living things that can cause illness?							
	III.			ling wi	th biolo	ogical substances trained or certified in			
	IV.	handli		vthing t	hat can	be inhaled, ingested or absorbed into			
	1 7 .	the bo	_	, anns t	iiui Vall	. The initial of the second of			
		A.	I and II only		C.	III and IV only			
		B.	II and III only		D.	I and IV only			

<b>Q22</b>	Below	are ass	essments for e	liminatii	ng ergo	nomic h	nazards:				
	I.	Are w	orkers exposed	l to any	radiatio	n?					
	II.	Can injury or strain arise from the design and organization of a worker's work space?									
	III.	Are there any blind spots or poorly lit areas in the work space?									
	IV.	Are workers exposed to anything that can be inhaled, ingested or absorbed into									
	. , ,	the bo	_		5						
		A.	I and II only			$\mathbf{C}_{i}$	III and IV onl	y			
		B.	II and III only	y		D.	I and IV only				
<b>Q23</b>				process	of toxi	c subst	ance in human	body	may include	e the	
		_	ples except			0	0.1	D	Taath		
	A.	Blood	В.	Urine		C.	Saliva	D.	Teeth		
<b>Q24</b>	The ris	sk man	agement proce	ss invol	ves son	ne of th	e OSH standar	d proce	edures. Which	ch of	
		ne risk management process involves some of the OSH standard procedures. Which of e following is <b>not</b> included in the main standard procedures?									
	A.	Identif	fying a hazard			C.	Putting in pla			S	
	B.	Assess	sing the risk			D.	Conducting in	nterviev	V		
<b>Q25</b>	Which	of the	following are i	ncluded	in the '	Hazard	Identification'	proces	s?		
223	I.		place inspection		III.		igate accident 1				
	II.	-	d elimination.		IV.		d isolation.				
	11.	A.	I and III only			C.	I, II, III and Γ	V			
		B.	I, II and III or			D.	None are corr				
226	D-6	- 41!	1								
<b>Q26</b>	A.		k assessment to		the risk	and ha	zards at workp	lace			
	B.	The le	oislation proce	ess of do	cument	ing the	potential hazar	d at wo	rkplace		
	C.						and health aris			;	
		work									
	D.	The partion		nazard is	identif	ied, me	easured and tak	en mit	igating nece	ssary	
<b>Q27</b>	The so	ource of	hazards can b	e classif			tegories which	are:			
	I.		anical Hazard		III.		ical Hazard				
	II.		ical Hazard		IV.	_	omic hazard	* 7	and the second	1	
		Α,	I and III only			C.	I, II, III and I	V.	IN A		
		B.	I, II and III o	nly		D.	I, II, III and I None are cor	rect	UIX	Market And	
<b>110</b>	W71.:.1	, of the	following are	the corre	act type	e of har	ard inspection	The state of the s			
Q28	I.		ory Inspection		III.	Forms	al and Informal	Inspec	ction		
	II.		dic Inspection		IV.		rical System Ins				
	11.	A.	I and II only			C.	I, II and III o	_			
		B.	III and IV on	ıly		D.	I, II and IV o				
				±:							

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Q29		anization Site are Invento A.	on includes some of the		tant dat Monito	oring data blogy data				
Q30	Which of the following choices is <b>not</b> the method used in Hazard analysis?  A. Job Safety Analysis (JSA) C. Hazards and Operability Studies (HAZOP)									
	A. B.			D.		Free Analysis				
Q31		Hazard exposure monitoring process may include the monitoring of								
	I.	noise		III.	E					
	II.	heat		IV.						
		A.	I and II only		C.					
		B.	I, II and IV only		D.	I, II, II and IV				
Q32	Medical surveillance in working place is warranted by law only if  I. no hazardous substance is used  II. there are evidence or reason to suspect injury  III. atmospheric monitoring is insufficient									
	IV. workers not wearing personal protective equipment (PPE)									
		A.	I and II only		C.					
		B.	I, II and III only		D.	I, II, II and IV				
Q33	The Jo I. II.	fact prorelated A.	afety Analysis (JSA) toblems job description I and II only I, II and III only	III.	learnii					
Q34	The Hazard and Operability Studies (HAZOP) method is used to:									
	I.									
	II.		e the public on the dar		hazards					
	III.		the standard regulation							
	IV.	identif	y the operability probl	lems						
		A.	I and III only		C.	I, II and IV only				
		B.	I and IV only		D.	I, II, II and IV				
Q35	The Fa	analys evalua calcula	e Analysis method is use how and why an income the chemical substante the probability of each the possible danger of and III only I, II and IV only	ident co ince use and ever	d at wo	rk				
			× = ==================================							

Q36	<ul><li>I. Risk control in OSH management</li><li>II. Company ISO record</li></ul>						
	III.		e reference and review	7			
	IV.		n and penalty		~	1 1	
		A.	•		C.		
		В.	I and III only		D.	I, II, II and IV	
Q37	Select	the mo	oct truth statements in	dicate th	ne rick a	ssessment should be carried out for.	
Q37	I.		ne and non routine act				
	II.		ities during routine fire		-	5 *******	
	III.		ities of all personnel h			the workplace	
	IV.					ed by the organisation or others	
		A.					
		B.	I, III and IV only		D.	None listed above	
	-						
Q38						requires the first aid treatment.	
	A.	Minor	r injuries	C.	Fatali	ty	
	B.	Major	rinjuries	D.	Negn	gible injuries	
Q39	The li	kelihoo	od of occurrence of ha	zard un	der 'un	likely category' can carry the meaning	
QUI	that th	ne poten	ntial hazard could happ	oen			
	A.	Frequ	ently	C.	Rarel	y	
	B.		sionally	D.	Neve		
90.552 99°.5565						1.1	
Q40	Under	Under the Semi-Quantitative risk assessment method, a person which was MC leaved for more than 4 consecutive days can be categorised to having severity of					
	More A.	unan 4 d Level			Level		
	A. B.				Level		
	В.	Level	. <b>4</b>	D.	Level	. •	
Q41	Unde	r the S	Semi-Ouantitative ris	k asses	sment	method, any hazard that potentially	
•	repeat	ting oc	curs monthly can be	e catego	orised t	to having a likelihood occurrence of	
	A.	Level	1	C.	Level		
	B.	Level	2	D.	Level	[4	
				.1 1	1 11 1	The state of the s	
Q42		Quantit	ative' risk assessment	method	shall be	e conducted for the case where	
	A.	Hazaı	rds are indentified as r	ninor ar	id the d	ocumentation process is simple	
	B.	Hazaı	rds are indentified as t	olerable	and the	documentation process is simple	
	C.	Hazai	rd is indentified as tole	eranie ai	na me a ond the	ocumentation process is complex documentation process is complex	
	D.	nazai	ra is indenumed as nui	nerous	and the	documentation process is complex	

- Under the 'As Low as Reasonably Practicable (ALARP)' method, the decision for action **O43** is considered as intolerable if
  - The level of risk is not present on any ground A.
  - The level of risk is moderately justified on any ground B.
  - C. The level of risk is justified with some control measure present on any ground
  - The level of risk cannot be justified on any ground D.
- The safety signs and corresponding colours categorize the priority of attention. What are 044 the colours for the safety signs?
  - Blue I.

III. Orange

II. Red

Violet IV.

I and II only A.

II, III and IV only C.

Β. I, II and III only D. I, II, III and IV

- The most effective hazards controls measures is: **Q45** 
  - Ensuring to always using the personal protective equipment (PPE) in the A. workplace
  - Ensuring to always practice the safe working environment to control the hazard В.
  - Identifying the hazard and apply effective control measures C.
  - D. Eliminating all hazards
- Based on the Figure Q46 below, identify two (2) incorrect methods used in the crane **Q46** lifting operation.



Figure Q46

- No safety clips on crane hook. I.
- Signaller person not wearing safety helmet II.
- The crane lifts the steel rods too high. III.
- IV. Only one crane used in the lifting operation
  - A. I and II

III and IV C.

B. II and III D. I and III Q47 Figure Q47 shows a typical working environment in construction site.

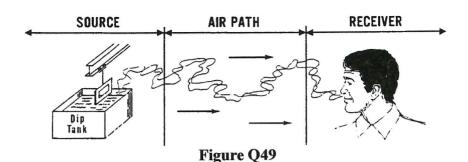


Figure Q47

Select some correct hazards as identified below.

- I. Objects falling from above
- II. Electric shock
- III. Sharp objects on the floor
- IV. Person falling from high level
  - A. I only

- B. I and II only
- C. I, II, and III only
- D. I, II, III and IV
- Q48 Identify some appropriate control measures as stated below that could be applied in reducing the risk for the working situation previously shown in Figure Q47.
  - I. Wearing safety helmet
  - II. Use of work barrier
  - III. Wearing oxygen mask
  - IV. Use the 'A' type ladder
    - A. I only
    - B. I and II only
- C. I, II, and III only



- **Q49** Figure Q49 shows consequences of inhalation of hazardous gas / odour by person (i.e. Receiver) who is working in the chemical plant environment. Identify some **correct** hazard control actions that can be implemented to the 'Air Path' section, based on the list below.
  - I. General ventilation
  - II. Using air freshener to eliminate the odour
  - III. Automation or remote control exhaust fan
  - IV. Air filtering
    - A. I, II, IV
    - B. I, III, IV
    - C. I, II, III, IV
    - D. None listed above
- Q50 Identify the some CORRECT hazard control actions that can be taken to the 'Receiver' section as previously shown in **Figure Q49**, based on the list below.
  - I. Wearing a personal protective device (PPE)
  - II. Provide enclosure area for the worker
  - III. Duty rotation of worker
  - IV. Personal monitoring and training
    - A. I, II, IV
    - B. I, III, IV
    - C. I, II, III, IV
    - D. None listed above



- END OF QUESTIONS -