Automotive Mechanical Technology

Section II

35 marks Attempt Questions 16–21 Allow about 50 minutes for this section

Answer the questions in the spaces provided. These spaces provide guidance for the expected length of response.

Question 16 (4 marks)

Ten litres of engine oil have been spilled on the workshop floor.

4

Outline how to clean up and dispose of the waste.

first free the area of an electrical currents that may catch the fluid.

then find your spill kit which Should contain spill dust. Sprinkle the ftutal dust over the oil untill it has observed it all and then should the dust into a live steep him.

Question 17 (4 marks)

Outline TWO environmental consequences of incorrect trade waste disposal.
death or animals in the area
also le plantlife.
land one le mande
local pools, ponds, lakes may yesult in contamination blading
pescult in countainination blading
to aquatic life dying seaple getting liet or dying a the government
Ciel or deline & the ownent
fining of placing imprisonment on the responsible person
on the resummediale person

3

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Section II (continued)

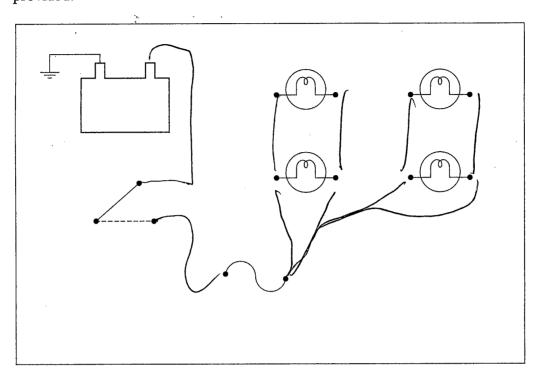
Question 18 (3 marks)
All new vehicles registered in Australia need to be compliant with Australian Design Rules (ADR).
What is the purpose of these rules?
to ensure all vechiles are
road worthy and safe, Some
level license drivers are allowed
to drive certain consunder a
certain power latto etc hight,
speed, Derformance, danger ability.

5

2

Question 19 (7 marks)

(a) Construct a parking light circuit in the box below, using all the symbols provided.



(b)	Explain how you would use a voltmeter to test voltage drop to the parking/tail
	light circuit.
	no idea.

110 (000)	
	•
•••••	 •

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Section II (continued)

		·
Que	estion 20 (8 marks)	
(a)	Describe how the motor sport industry has influenced the development of vehicle brake technologies. Using remete central braking from a second person.	3
(b)	Explain how an anti-lock braking system (ABS) prevents wheel lock-up in emergency braking conditions. 17 Stead of a sudden leak up of the weels, the lock up while chrising but do it safer in less distance	5
		` .

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Section II (continued)

Ques	stion 21 (9 marks)	
(a)	Why should a workshop vice be left with a gap between the jaws when it is not in use? See ut does what See ze	1
(b)	Under what circumstances should the drilling speed be changed on a pedestal drill? When you have almost come to He and of drilling or when you come to a thicker part of	2
(c)	What precautions should be observed when using an electric welder in the workplace? Male Sure what your welding is not wet, there are no splits in he wives and your using it correctly.	2

Question 21 continues on page 16

Question 21 (continued)

(d)	Describe the advantages of using electric-powered tools compared with airpowered tools.	
	different levels of power and	
	handeling, different speeds	
	different levels of perver and handeling, different speeds L capabilities.	

End of Question 21