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**UNIVERSITI TUN HUSSEIN ONN MALAYSIA**

**FINAL EXAMINATION  
SEMESTER I  
SESSION 2018/2019**

COURSE NAME : INDUSTRIAL TECHNOLOGY  
COURSE CODE : BPC 11502  
PROGRAMME CODE : BPB  
EXAMINATION DATE : DECEMBER 2018 / JANUARY 2019  
DURATION : 2 HOURS  
INSTRUCTION : ANSWER ALL QUESTIONS

THIS QUESTION PAPER CONSISTS OF FIVE (5) PAGES

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- Q1** (a) Explain about Industrial Revolution from the first to the fourth. (8 marks)
- (b) Discuss the impact of Malaysian Industrial Policy towards economic development of our country. (12 marks)
- Q2** (a) (i) State **TWO (2)** Industrial Classification Standard. (2 marks)
- (ii) State **THREE (3)** examples of section in the Industrial Classification Standard in **Q2(a)(i)**. (3 marks)
- (iii) Explain the purpose of Industrial Classification Standard. (5 marks)
- (b) In the modern global economy, a nation must have a strong manufacturing base (or it must have significant natural resources) if it is to provide a strong economy and a high standard of living for its people. (Source: Mikell P. Groover, 2013)

Discuss your opinion about the role of manufacturing in a modern economy. (15 marks)

**Q3** Table Q3(a), Table Q3(b)(i), Table Q3(b)(ii), and Table Q3(c) in Appendix I are data related to Malaysian Automotive industry.

Analyse the data to give a picture on the importance of automotive industry in Malaysian economy from aspects below:

- (a) Foreign Direct Investment (10 marks)
- (b) After Sales Business (10 marks)
- (c) Employment (10 marks)

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- Q4** (a) List **FIVE (5)** examples of service industry. (5 marks)
- (b) Describe **FIVE (5)** service industry that are important to support manufacturing activities. (10 marks)
- (c) Explain the role of **Q4 (b)** in supporting manufacturing activities. (10 marks)

**- END OF QUESTIONS -**

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Table Q3(a) Details of Approved Investments

Automotive Industry	2013 (RM mil.)	2014 (RM mil.)	2015 (RM mil.)	2016 (RM mil.)
Domestic investment	4,060.38	1,086.81	970.73	641.92
Foreign investment	1,587.16	794.03	475.99	127.17
Total investments	5,647.54	1,880.83	1,446.72	769.08

Source: MIDA

Table Q3(b)(i) Domestic Market Segment(Production)

Segment	2013 (units)	2014 (units)	2015 (units)	2016 (units)
Passenger cars	543,892	545,122	563,883	503,691
Commercial vehicles	57,515	51,296	50,781	41,562
Motorcycles	549,244	439,907	382,218	397,918
<b>Total</b>	<b>601,407</b>	<b>596,418</b>	<b>614,664</b>	<b>545,253</b>

Source: Reclassified, based on data from Malaysian Automotive Association (MAA)

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Table Q3(b)(ii) Domestic Market Segment(Sales)

Segment	2013 (units)	2014 (units)	2015 (units)	2016 (units)
Passenger cars	576,657	588,341	591,298	514,545
Commercial vehicles	79,136	78,124	75,376	65,579
Motorcycles	546,719	442,719	380,802	396,343
<b>Total</b>	<b>655,793</b>	<b>666,465</b>	<b>666,674</b>	<b>580,124</b>

Source: Reclassified, based on data from Malaysian Automotive Association (MAA)

Table Q3(c) Employment Based on Monthly Manufacturing Survey conducted by DOS

Description	Employment (person)				
	2014	2015	2016	Change (%)	2017 (Jan-May)
Motor vehicles	28,007	27,851	27,115	(2.6)	27,557
Motorcycles	5,923	5,245	4,670	(11.0)	4,093
Parts and components	26,388	27,155	26,902	(0.9)	27,026
<b>Total</b>	<b>60,318</b>	<b>60,251</b>	<b>58,687</b>	<b>(2.6)</b>	<b>58,676</b>

Source: Department of Statistics(DOS)

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