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Universiti Tun Hussein Onn Malaysia

UNIVERSITI TUN HUSSEIN ONN MALAYSIA

**FINAL EXAMINATION
SEMESTER I
SESSION 2019/2020**

COURSE NAME : INDUSTRIAL TECHNOLOGY
COURSE CODE : BPC 11502
PROGRAMME CODE : BPB
EXAMINATION DATE : DECEMBER 2019 / JANUARY 2020
DURATION : 2 HOURS
INSTRUCTION : ANSWER ALL QUESTIONS

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THIS QUESTION PAPER CONSISTS OF **THREE (3)** PAGES

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- Q1** (a) Explain the technical advances which changed the way humans produce things that happen in each state of industrial revolution from the first to the fourth.
(12 marks)
- (b) State **NINE (9)** technology trends that form the building blocks of Industry 4.0.
(9 marks)
- Q2** (a) Minister of Plantation Industries and Commodities stated that Malaysia should adopt modern technology to boost the local agriculture sector. The agriculture sector contributed to RM89.3 or 8.1% to the gross domestic product (GDP), while the agro-food sector contributed to RM36.5 billion or 3.3% to GDP in 2016.
(Source: The Malaysian Reserve, 27th September 2017)
- (i) Give **THREE (3)** examples of modern technologies that currently being adopted in Malaysian agriculture sector.
(3 marks)
- (ii) Discuss **THREE (3)** advantages of the adoption of modern technology in Malaysian agriculture sector.
(12 marks)
- (b) Differentiate between mining and quarrying.
(6 marks)
- Q3** (a) Discuss **THREE (3)** importance of manufacturing to the Malaysian economy.
(12 marks)
- (b) Compare **FOUR (4)** manufacturing attributes between process and discrete manufacturing.
(8 marks)
- (c) Chemical and petrochemical sector is among the largest contributor to Malaysia's total exports of manufactured goods.
- (i) Name **THREE (3)** sub-sectors.
(3 marks)
- (ii) Discuss **FOUR (4)** factors that contribute to the growth of the sector.
(12 marks)

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- Q4** (a) Compare **FIVE (5)** characteristics of service and manufacturing industries. (15 marks)
- (b) The World Trade Organization (WTO) classification for distribution service covers among others retailing and franchising services.
- (i) Describe retailing and franchising services. (6 marks)
- (ii) Name **TWO (2)** companies which provide retailing and franchising services in Malaysia. (2 marks)

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– END OF QUESTIONS –