

UNIVERSITI TUN HUSSEIN ONN MALAYSIA

FINAL EXAMINATION SEMESTER I SESSION 2018/2019

COURSE NAME

: ALTERNATIVE MATERIAL

TECHNOLOGY

COURSE CODE

: BPP 30603

PROGRAMME CODE

: BPP

EXAMINATION DATE

: DECEMBER 2018 / JANUARY 2019

DURATION

: 3 HOURS

INSTRUCTION

: ANSWER ALL QUESTIONS

THIS QUESTION PAPER CONSISTS OF THREE (3) PAGES

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Q1 Differentiate THREE (3) principle operations in press-working of metal-sheet (a) (shearing mechanism). Your answer should include the name and definition of the operation with appropriate illustration. (9 marks) State THREE (3) basic types of adhesives and give TWO (2) examples of each. (b) (6 marks) Differentiate FIVE (5) types of file using appropriate illustration. (c) (10 marks) List FIVE (5) types of commercial glasses. Q2(a) (5 marks) Differentiate FOUR (4) properties of two types of glasses as in Q2(a). (b) (4 marks) Compare TWO (2) methods of piece-ware shaping made from glass. Your answer (c) should include name, an example of product and forming process of respective method with aid of illustrations and label. (12 marks) Illustrate the process of continuous glass fibres with labels. (d) (4 marks) List THREE (3) groups of ceramics with examples. Q3 (a) (6 marks)

Describe the curing mechanism of Portland cement. (b)

(6 marks)

Describe THREE (3) important properties of ceramics. (c)

(12 marks)



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Q4 (a) State FIVE (5) common mammalian skins used for leather production. (5 marks)

(b) Differentiate THREE (3) skin structures of THREE (3) mammalian skins as in Q4 (a). (9 marks)

(c) The textile can be made of either cellulosic, proteinaceous, or synthetic fibres.

Compare these **THREE** (3) fibres with two examples.

(12 marks)

- END OF QUESTIONS -

