

UNIVERSITI TUN HUSSEIN ONN MALAYSIA

FINAL EXAMINATION SEMESTER I SESSION 2011/2012

COURSE NAME	•	PRODUCT DEVELOPMENT
COURSE CODE	•	BPC 32403
PROGRAMME	:	3 BPB
EXAMINATION DATE	:	JANUARY 2012
DURATION	:	2 HOURS 30 MINUTES
INSTRUCTION	:	ANSWER ALL QUESTIONS

THIS QUESTION PAPER CONSISTS OF THREE (3) PAGES

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Q1 (a) Define the term product specifications.

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(5 marks)

(b) Search externally is a second step of a five-step concept generation method. Discuss **FIVE** (5) ways of gathering information from external sources.

(20 marks)

Q2 (a) Explain about two-stage concept selection.

(7 marks)

(b) Production team of company VV has identified seven potential concepts. The company also identified selection criteria to evaluate the concepts. In order to select a best concept, Concept-screening matrix was developed as shown in Table Q2 (b).

Suggest the most appropriate concept based of matrix given in table Q2 (b).

Selection Criteria	CONCEPT							
	A	B	C	D	E	F	G	
Ease of handling	0	0	-	0	0	-	-	
Ease of use	0	-	-	0	0	+	0	
Readability of settings	0	0	+	0_	+	0	+	
Dose metering accuracy	0	0	0	0	-	0	0	
Durability	0	0	0	0	0	+	0	
Ease of manufacture	+	-	-	0	0	-	0	
Portability	+	+	0	0	+	0	0	

Table Q2 (b): Concept-Screening Matrix

(10 marks)

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Q3

Q4

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(c) Concept-scoring technique is another technique widely used in industry to evaluate concepts. The developed concept-scoring matrix is shown in Table Q2 (c).

	F	Α	B	C	D	E	F	G
Selection Criteria	Weight (%)		WEI	GHTE	D SCOR	ES		
Ease of handling	5	4	3	4	4	3	4	4
Ease of use	15	4	4	4	3	3	4	4
Readability of settings	10	3	3	5	5	2	3	3
Dose metering accuracy	25	4	3	2	3	3	3	3
Durability	15	3	5	4	3	2	3	2
Ease of manufacture	20	4	3	2	2	3	3	4
Portability	10	4	3	3	3	4	4	2
(a) Explain about fac	tors favorin	ng a large	er samp	le size				
., .	tures compr	rise three	types:	slot, b	us and	sectio	onal.	
(b) Modular architec	tures compr tectures by ;	rise three giving su	types: iitable e	slot, b	us and	sectio	onal.	
(b) Modular architec Explain the archi	tures compr tectures by p be for any se	rise three giving su elected p	types: iitable c	slot, b examp	us and a les.			(15 n

Table Q2 (c): Concept-Scoring Matrix

(b) Explain level of approximation of prototype for the designed prototype, based on Q4 (a).

(8 marks)

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END OF QUESTION PAPER