



UNIVERSITI KUALA LUMPUR
Malaysia France Institute

FINAL EXAMINATION
JANUARY 2014 SESSION

SUBJECT CODE : FGD 20203
SUBJECT TITLE : MACHINE TOOLS VERIFICATION
LEVEL : DIPLOMA
TIME / DURATION : 2.5 HOURS **3.30 pm - 6.00 pm**
DATE : 28 MAY 2014

INSTRUCTIONS TO CANDIDATES

1. Please read the instructions given in the question paper **CAREFULLY**.
2. This question paper is printed on both sides of the paper.
3. Please write your answers on the answer booklet provided.
4. Answer should be written in blue or black ink except for sketching, graphic and illustration.
5. This question paper consists of **TWO (2)** sections. Section A and B. Answer all questions in Section A. For Section B, answer four (4) question only.
6. Answer all questions in English.

THERE ARE 5 PRINTED PAGES OF QUESTIONS EXCLUDING THIS PAGE.

Section A : (60 marks)**INSTRUCTION: Answer ALL questions.****Please use the answer booklet provided.****Question 1**

Based on BS 4656 Part 10; March 1975 (Drilling Machine Radial Type), Describe how the following Machine Tools Verification should perform. List down the instruments used and tolerances given as refer to Figure 1 to Figure 3.

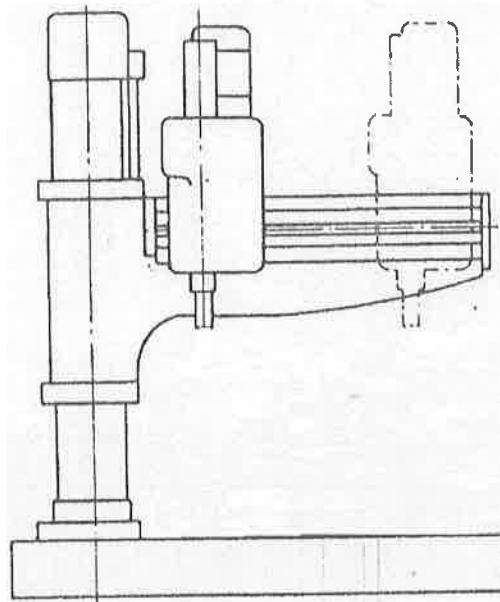
G2:

Figure 1

(10 marks)

G3:

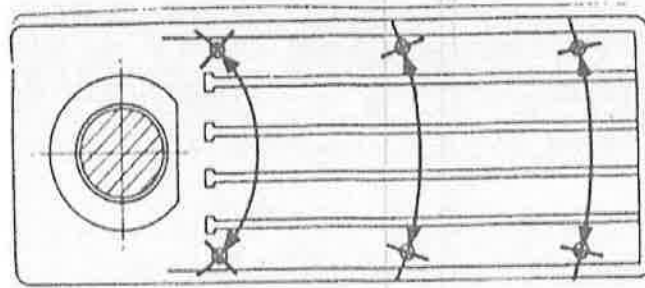


Figure 2

(10 marks)

G4:

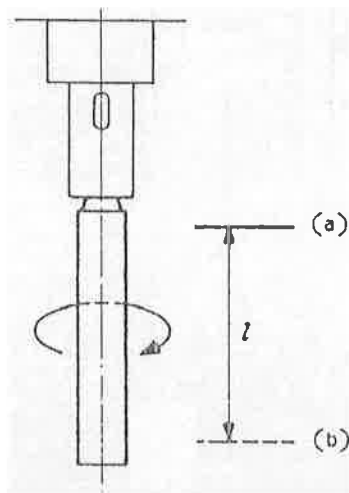


Figure 3

(10 marks)

Question 2

Based on BS 4650 Part 1 (Lathe Machine), Describe how the following Machine Tools Verification should perform. List down the instruments used and tolerances given as refer to Figure 4 to Figure 6

G3:

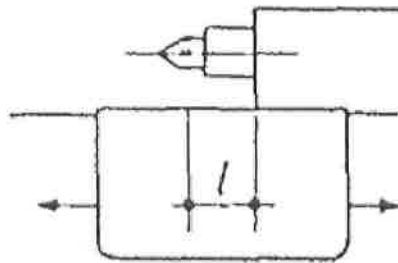
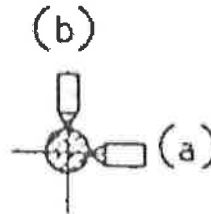


Figure 4



(10 marks)

G7:

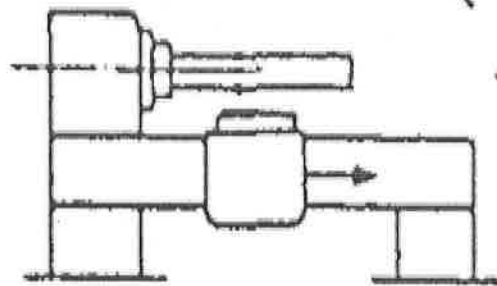
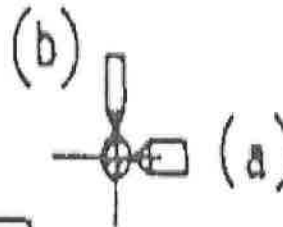


Figure 5



(10 marks)

G11:

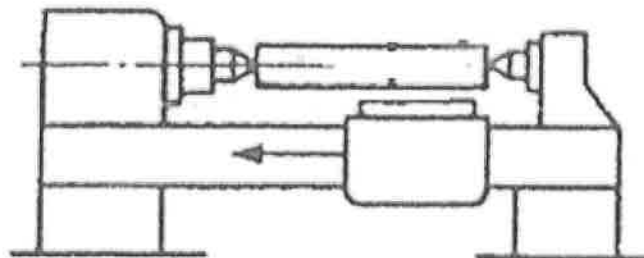


Figure 6

(10 marks)

Section B: (40 marks)

INSTRUCTION: Answer FOUR (4) questions ONLY.

Please use the answer booklet provided.

Question 3

Explain briefly and give example general purpose of precision and normal accuracy for lathe machine.

(10 marks)

Question 4

List down **FIVE (5)** advantages of roller bearing that is normally used in the world today.

(10 marks)

Question 5

a) List down **FIVE (5)** difference types of ball bearings that are used in the industry today.

(5 marks)

b) List down **FIVE (5)** difference types of roller bearings that are used in the industry today.

(5 marks)

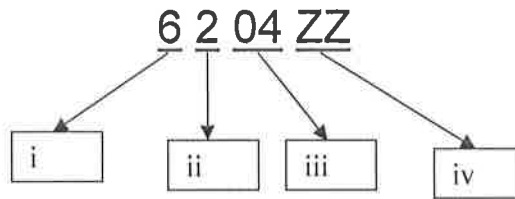
Question 6

Explain and give the example of using 5'S concept in today's industry.

(10 marks)

Question 7

a) Please state each numbering below from i until iv



(4 marks)

b) Explain the different axial load and radial load of bearing?

(6 marks)

END OF QUESTION