



QUESTION 1

MECHANICAL ANALYTICAL

- 1.1 Choose the correct alternative and write down the **LETTER** in the space provided.
- 1.1.1 The feature 'A' in Figure A represents a: C (1)
- A. Revolved section**
B. Removed section
C. Interrupted view
- 1.1.2 The feature 'B' in Figure A represents a: A (1)
- A. Revolved section**
B. Removed section
C. Interrupted view
- 1.2 Answer the following questions. Write your answer in the space provided.
- 1.2.1 The feature 'C' in Figure A represents a KEYWAY (1)
- 1.2.2 The feature 'D' in Figure B represents a CHAMFER (1)
- 1.2.3 The feature 'E' in Figure B represents KNURLING (1)
- 1.2.4 What is the thickness of the thread on Figure B? 2 mm (1)
- 1.2.5 What type of machine part is shown in Figure C? SPRING (1)
- 1.2.6 What type of key is shown in Figure D? RECTANGULAR (1)
- 1.2.7 What type of hole (Feature 'F') is shown in Figure E? THREADED / TAPPED (1)
- 1.2.8 The feature 'G' in Figure F represents a FILLET (1)
- 1.2.9 What is the value of the Pitch Circle Diameter (Figure F)? 60 (1)
- 1.2.10 What type of weld is represented in Figure G? FILLET (1)
- 1.2.11 Determine the following with reference to the machining symbol shown in Figure H:
- 1.2.11.1 The roughness value 0,8 (1)
- 1.2.11.2 The direction of lay PERPENDICULAR (1)
- 1.2.12 Is the thread represented in Figure I internal or external? INTERNAL (1)

Figure I

Figure G

Figure H

15 MARKS

EXAMINATION NUMBER