



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)

15 MARKS

EXAMINATION NUMBER

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ANSWER SHEET 1