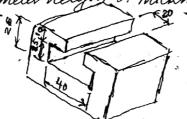
## Assignment Machining Processes MET05209

1. Name three general designs of cutters used on milling machines.

2: Explainto out a T-Slot on milling machine. The wieth of slot is 20 millimeter depth and T-Slot width is 40 millimeter X 15 millimeter height or thickness



3. Draw a nead sketch showing the six steps to be followed in cutting or milling six sides flat and square to each other.

4. Calculate (R.P.M) revolutions per minute for the following details: A comb-ination center drill \$ 3 mm Hs.s., material to be centered mild steel C.S. 15 meters per minute:

5. Describe by means of sketching (i) Conventional milling (ii) Climb milling

6. Name several operations which can be performed on milling machines.

7. Name at list six types of milling machines.

8. What are common methods used for in indexing?

9. What types of cutter will you use and milling machine will you use for the following operations?

(i) For cutting gear feeth

curved surfaces V-810tes

(iv) For key-way cutting on a shaft

10. Give Explanation the following:

(i) Pentograph or engraving machine job

(ii) bisiding head

11. Describe mechanical indexing head.

12. Make lebelled sketches of the following operations:(1) slab milling cut
(1) Straddle milling cut
(11) Gang milling

13. What type of cutter will you select for cutting the following materials according to teeth pitch?

Materials

Bight metals

Soft metals

Hard metals

Big pitch

14.16hot is the indexing 18 year Freth of 14.1) Calculate for indexing 18 year Freth of Indexing plate: 17,19,22,26,27,30,32,36

(ii) Calculate for indexing internal year in degrees having 13 mumber of teeth by using protary table.

- 15. Name five classifications of willing machines.
- 16. Name eight classifications of grinding and abrassives machines.
- 17. What features does a universal milling machine have that a plain milling does not have?
- 18. When a grinding wheel becomes glazed or not running true you need to dress the wheel. What tool would you use for dressing up the wheel to run true?
- 19. Name five bonding materials.
- 20. What are natural abrassives and manufactured abrassives?
- 21. Write four safety concerning grinding wheels.
- 22. Describe rake angle on milling cutter as compared to rake angle on single-point lathetools.