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# SINDH BOARD OF TECHNICAL EDUCATION KARACHI

DIPLOMA OF ASSOCIATE ENGINEER 3rd YEAR

## MODEL PAPER FOR

ANNUAL EXAMINATION 2021

Technology: MECHANICAL

**SUBJECT: MT-374 WORKSHOP PRACTICE-III**

**SECTION "A" OBJECTIVE**

Instructions:

- Attempt all questions.
- All questions carry equal marks.
- Question paper must be returned back to invigilator within the scheduled time.

TIME: 40 Minutes  
MAX. MARKS: 50

**Q1.(a) Fill In the Blanks**

**Max Marks 30**

1. Shopping can be performed more effectively by \_\_\_\_\_. Milling machine.
2. Surfacing can be performed more effectively by \_\_\_\_\_ milling machine.
3. Slab milling can be performed more effectively \_\_\_\_\_ milling machine.
4. Drilling can be performed more effective by \_\_\_\_\_ milling machine.
5. Boring can be performed more effectively by \_\_\_\_\_ milling machine.
6. Cutting T-slots can be performed more effectively by \_\_\_\_\_ milling machine.
7. Arbors in milling machines are generally used to hold \_\_\_\_\_
8. The milling cutters are revolving tools having \_\_\_\_\_ cutting edges.
9. Milling cutters are broadly classified into \_\_\_\_\_ types.
10. Milling cutters may be made of \_\_\_\_\_ cast alloy.
11. Milling cutters are broadly classified into \_\_\_\_\_ types.
12. Arbor is connected with the milling machine spindle by \_\_\_\_\_.
13. Simple indexing method is also known as \_\_\_\_\_ indexing method.
14. When using a universal dividing head, the worm and worm wheel are first \_\_\_\_\_.
15. The rapid index plate is generally fitted to the \_\_\_\_\_ end of the spindle nose.

**Q.1(b) Encircle "T" for true and "F" for false:**

**Max Marks 10**

1. Milling machine is a machine tool that removes the metals the work is fed against a rotating single point cutter.. (T / F)
2. In milling machine, cutter rotates at high speed and removes metals at very high speed. (T / F)
3. Milling machine can hold one cutter at a time (T / F)
4. Milling machine find wide application in productions work. (T / F)
5. For milling the work is fixed on a table which controls the feed against the cutter. (T / F)
6. Generally in work shop, column and knee type milling machine is used. (T / F)
7. Milling machine is designed manufacturing a variety of tool room work. (T / F)
8. In electro chemical machining (ECM) heavy electrical sparks are created. (T / F)
9. Machine vibration isn't there in up milling process. (T / F)
10. Wood cannot be machined using electro chemical. (T / F)

**Q1.(c) Multiple choice questions:**

**Max Marks 10**

1. \_\_\_\_\_ part of milling machine can be used for reservoir for coolant  
(a) Base (b) Column (c) Knee (d) Table
2. When work to be drilling is hold in \_\_\_\_\_  
(a) Vise (b) Bench (c) Hand (d) Non of them
3. While chipping wear \_\_\_\_\_ to protect your eyes.  
(a) Gloves (b) Goggle (c) Cloth (d) None of them
4. Acute angle is \_\_\_\_\_ than ninety degree.  
(a) Less (b) Greater (c) Equal (d) None of them
5. \_\_\_\_\_ milling process is used for machining of irregular shapes?  
(a) Slab milling (b) Face milling (c) Angular milling (d) Form Milling
6. HSS stands for \_\_\_\_\_ steel  
(a) High speed steel (b) Heavy speed steel (c) High service steel (d) None of them
7. \_\_\_\_\_ operation is carried out to make the hole dimensionally more accurate.  
(a) Reaming (b) Tapping (c) Boring (d) None of them
8. \_\_\_\_\_ Milling cutters have teeth on their periphery as well as on their end?  
(a) Plan milling cutters (b) Side milling cutters (c) End milling cutters (d) Face milling cutters
9. Which of the following operation is use to enlarge the previously drilled hole.  
(a) Reaming (b) Topping (c) Boring (d) None of them
10. In milling operation, feed per revolution is 0.05 mm and speed of 400 rpm. Feed per min in mm/ is equal to.  
(a) 1 (b) 2 (c) 0.5 (d) 0.05

Signature of Candidate

Seal of Examination Centre

Signature of Invigilator



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DIPLOMA OF ASSOCIATE ENGINEER 3rd YEAR

# MODEL PAPER FOR

ANNUAL EXAMINATION 2021

Technology: Mechanical

**SUBJECT: WORKSHOP PRACTICE-III**

**SECTION "B" & "C"**

**TIME: 1.20 HOURS**

**MAX. MARKS: 50**

**Section "B"**

**(Short Answer Questions)**

**Max. Marks: 30**

**Q2: Attempt any five questions from the following. All questions carry equal marks.**

1. Write the name of any five measuring instruments?
2. Enlist the name of different files.
3. Write the name only 10 parts of vertical milling machine.
4. Which tools are used in machine shop at least 30 tools enlist.
5. Name the operation which can be performed by universal milling machine.
6. With the help of a neat sketch explain the column and knee type milling machine and name its main part.
7. Write 10 point about care of milling cutters.
8. How we use universal vise?

**Section "C"**

**(Descriptive Answer Questions)**

**Max. Marks: 20**

**Q3: Attempt all questions from the following. All questions carry equal marks.**

1. State the working principal of milling machine  
OR  
How will you classify milling machine and explain any one.
2. Explain indexing? Describe direct indexing with example.  
OR  
Define the following terms used in milling operation.  
(a) Cutting speed  
(b) Feed  
(c) Depth of cut  
(d) Machining time

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