



Roll No _____
Script No. _____

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 cutlers are revolving tools having _____ cutting edges.
9. Milling cutters are broadly classified into _____ types.
10. Milling cutlers 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 filled 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 _____ steal
(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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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
