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Roll No. 181753/171753/121753

5th Sem. / Mech./ Prod./ T&D/ CAD/ CAM/ F&F

Subject : Workshop Technology-III

Time : 3 Hrs.

M.M. : 100

SECTION-A

Note: Multiple choice Questions. All questions are compulsory (10x1=10)

(Course Outcome/CO)

- Q.1 Shaping can be performed more effectively by ___milling machine (CO-2)
a) horizontal b) vertical
c) can't say anything
d) none of the mentioned
- Q.2 The use of coatings on milling cutters will increase the ___ of the tool. (CO-5)
a) Surface hardness
b) Corrosion resistance
c) Surface finish d) Melting point
- Q.3 Gear shaping is related to..... (CO-6)
a) Template b) Form, tooth process
c) Hob d) Generating
- Q.4 As the number of threads on the hob increases, it's accuracy____ (CO-6)
a) increases b) decreases
c) remains same d) can't say

- Q.5 Grinding wheel is specified as "A46 K 5 B 17". Grain size of a wheel will be (CO-4)
a) Coarse b) Medium
c) Fine d) Very Fine
- Q.6 Most cylindrical grinding include a_____ to allow the forming of tapered piece. (CO-4)
a) Grinding dog b) Swivel
c) Center driver d) None of the above
- Q.7 Non-Traditional machine can also be called as _____ (CO-7)
a) Non-contact machining
b) Contact Machining
c) Partial contact machining
d) Half contact machining
- Q.8 The method of immersing a material into a molten bath for coating is known as_____ (CO-8)
a) Electroplating b) Cladding
c) Hot dipping d) Cementation
- Q.9 Which of the following is a surface finishing operation? (CO-9)
a) Drilling b) Honing
c) Milling d) Turning
- Q.10 Which of the following process have the lowest metal removal rate? (CO-9)
a) Drilling b) Reaming
c) Milling d) Honing

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SECTION-B

Note: Objective type questions. All questions are compulsory. 10x1=10

- Q.11 Define conventional milling. (CO-2)
Q.12 Define face of milling cutter. (CO-2)
Q.13 Write application of hobbing. (CO-6)
Q.14 Define gear shaving. (CO-6)
Q.15 Define grinding. (CO-3)
Q.16 Define truing of grinding wheel. (CO-4)
Q.17 Define super finishing. (CO-9)
Q.18 Define deburring (CO-8)
Q.19 Give the two purposes of coolant in honing process. (CO-6)
Q.20 Name a method used for measurement of surface roughness. (CO-9)

SECTION-C

Note: Short answer type questions. Attempt any twelve questions out of fifteen questions. 12x5=60

- Q.21 Give classification of milling machines based on different basis. (CO-2)
Q.22 Explain the principle of working of a milling machine. (CO-2)
Q.23 Explain straddle milling. (CO-2)
Q.24 Write the names of different milling cutters describe anyone. (CO-5)
Q.25 Explain the process of gear hobbing (CO-6)
Q.26 Write a short on gear shaping. (CO-6)

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- Q.27 Explain mounting of grinding wheel. (CO-4)
Q.28 What is the function of abrasives in a grinding wheel. Name any two types Of abrasives used in grinding wheels. (CO-4)
Q.29 State the function of dielectric fluids used in EDM processes. (CO-7)
Q.30 What are the main advantages and disadvantages of electrochemical machining. (CO-7)
Q.31 Explain the process of Powder coating. (CO-8)
Q.32 Give a few applications of metal spraying processes. (CO-8)
Q.33 What is buffing process? Give purposes and applications of buffing process. (CO-9)
Q.34 What is lapping process? Give types of lapping operations. (CO-9)
Q.35 Give the main purposes of metal finishing process. (CO-9)

SECTION-D

Note: Long answer type questions. Attempt any two out of three questions. 2x10=20

- Q.36 Explain any five different operation performed on a milling machine with neat sketch. (CO-5)
Q.37 Explain the principle of USM with neat sketch and write the four advantages & disadvantages. (CO-7)
Q.38 Explain centre less grinding and cylindrical grinding in details. (CO-4)

Note: Course Outcome (CO) mentioned in the question paper is for official purpose only.

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