No. of Printed Pages : 4 Roll No 4th Sem. / Mechanic Auto/ Prod./Mech. (C		100240/20240	Q.9 Write full form of HCP.	
			Q.10 Bronze is alloys of and	
	Subject : Material and Meta	•	SECTION-B	
Time : 3 Hrs.		M.M. : 100	Note: Very short answer type questions. Attempt ten questions out of twelve questions. 10x2:	•
Note	SECTION-A Note:Objective type questions. All questions are		Q.11 Name types of line deflects.	
	compulsory	(10x1=10)	Q.12 Define Peritectic	
Q.1	Define fatigue.		Q.13 Write few examples of solid solution on alloy	S.
Q.2	Define Wrought iron.		Q.14 Name any two iron ores.	
Q.3	Define metalloids.		Q.15 Define Curie point.	
Q.4	Name any two semi conduc	tors.	Q.16 Name different types of high speed steel.	
Q.5	Define amorphous solids		Q.17 Define twinning.	
Q.6	In BCC structure r=		Q.18 Define annealing.	
Q.7	Define Atomic packing facto	or.	Q.19 Write the applicants of carburizing.	
Q.8	Define atomic radius.		Q.20 Name types of pyrometers.	

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- Q.21 Define thermoplastic.
- Q.22 Name any two synthetic rubber.

SECTION-C

Note: Short answer type questions. Attempt any eight questions out of ten questions. 8x5=40

- Q.23 Write the uses of bio materials
- Q.24 Write the advantages semi conductors.
- Q.25 Calculate number of atoms per unit cell in HCP structure.
- Q.26 Calculate atomic radius is FCC structure.
- Q.27 Define screw dislocation.
- Q.28 Differentiate between slip and twinning.
- Q.29 Define dendritic solidification of pure metal.
- Q.30 Explain the various properties of solid solution alloys.
- Q.31 Explain the basic steel for general purpose.

Q.32 Define the various properties of rubber.

SECTION-D

Note:Long answer type questions. Attempt any three questions out of four questions. 3x10=30

- Q.33 Explain the various types of cast iron with uses and properties.
- Q.34 Explain the effects of various alloying elements in steel.
- Q.35 Explain Aluminum alloys with uses and properties
- Q.36 Explain tempering heat treatment process.

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