2)

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Code: 100105

B.Tech 1st Semester Exam., 2018 (New)

WORKSHOP MANUFACTURING PRACTICES

Time: 3 hours

Full Marks: 70

Instructions:

- (i) The marks are indicated in the right-hand margin.
- (ii) There are **NINE** questions in this paper.
- (iii) Attempt **FIVE** questions in all.
- (iv) Question No. 1 is compulsory.
- 1. Choose the correct option (any seven): 2×7=14
 - The casting method adopted for ornaments and toys of non-ferrous alloys, is
 - (i) permanent mould casting
 - (ii) slush casting
 - (iii) die casting
 - (iv) centrifugal casting

(Turn Over)

- In a cold chamber die casting machine
 - (i) melting pot is separate from the machine
 - (ii) melting pot is an integral part of the machine
 - (iii) melting pot may have any location
 - (iv) low temperature and pressure is used
- Structural sections such as rails, angles, I-beams are made by
 - (i) hot rolling
 - (ii) hot drawing
 - (iii) hot piercing
 - (iv) hot extrusion
- Cutting and forming operations can be performed in a single operation in a
 - (i) simple die
 - (ii) progressive die
 - (iii) compound die
 - (iv) combination die

(Continued)

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To prevent the body of the blade from

jamming in the saw cut, the teeth of

(e) The teeth of hacksaw blade are bent

3)

- (i) towards right
- (ii) towards left
- (iii) alternately towards right and left and every third or fourth left straight
- (iv) may be bent in any direction
- (f) A casting defect which occurs near the ingates as rough lumps on the surface of a casting is known as
 - (i) shift
 - (ii) sand wash
 - (iii) swell
 - (iv) scab
- (g) The cold chisels are made from
 - (i) cast iron
 - (ii) mild steel
 - (iii) high-speed steel
 - (iv) cast tool steel

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(iv) All of the above

(i) A ring gauge is used to

strengthened

(ii) sharpened

blade are

(iii) set

- (i) check the diameter of shafts or studs
- (ii) test the accuracy of holes
- (iii) check the clearance between two mating surfaces
- (iv) All of the above
- (j) The metal is subjected to mechanical working for
 - (i) refining grain size
 - (ii) reducing original block into desired shape
 - (iii) controlling the direction of flow lines
 - (iv) All of the above

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List out various fastening methods those are used in sheet metal and

explain any two of them.

What is the difference between hem and seam?

(Continued)

(5)

2.	(a)	List out any six carpentry processes. Sketch and describe a V-block.
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- Draw the neat sketches of the following:
 - (i) Mortise and tenon joint
 - (ii) Dovetnil joint http://www.akubihar.com
- 3. Explain any five types of files used in fitting with neat sketches.
 - Name the various types of vices used in fitting shop.
 - Define the following: 4
 - (i) Drilling
 - (ii) Boring
- List any six forging defects. 6
 - Distinguish between blanking and punching.
 - Explain any two stakes used in sheet metal work with sketches.

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(Turn Over)

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What are the different work-holding

devices used in drilling machine?

Discuss any three of them with neat

sketches.

Sketch the twist drill and label the

parts.

working?

works.

sand and explain them.

8. (a)

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- **(9**)
- What is a core? List out the different types of cores.

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(b) What are the advantages of green sand mould?

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