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BET-026

Diploma in Civil Engineering / Diploma in Electrical & Mechanical Engineering

Term-End Examination

June, 2012

BET-026 : WORKSHOP TECHNOLOGY

Time : 2 hours

Maximum Marks : 70

Note: Question No. 1 is compulsory. Attempt any six questions from Part 'A' and two questions from Part 'B'.

Attempt any Seven Questions.

2x7 = 14

- (a) Name of three chisels, used in carpentry work.
 - (b) Sweep pattern is used for preparing large size of symmetrical mould (mark Yes or NO)
 - (c) As per colour coding for pattern, Indicate the colour

(i) For surface to be left unmachined.

(ii) For core-prints.

(d) Indicate the name of core which is used to produce a blind hole along a horizontal axis.

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(e) Select the value of lip or cutting angle in case of Twist - drill,

(i) 120° (ii) 60° (iii) 118°

- (f) Hand-Tap is obtained in set of three pieces.Write down the name of each piece.
- (g) Fluxing Agents may be of Two-Types Corrosive type and Non-corrosive type. Give the example of each type.
- (h) The standard colour of Acetylene cylinder is(i) Black (ii) Maroon (iii) White
- (i) What is the Function of Extender or Inert-Filler in the preparation of oil-paint?

PART-A

Attempt any six Questions.All Questions carryequal marks (6 - marks each)6x6=36

- **2.** Give a list of chisels used in carpentry work. Describe the use of any two with sketches.
- 3. Distinguish between "CORE" and "CORE-PRINT". What is 'SETTING OF SAW-TEETH" ? Why is it done ?
- Define "GATING-SYSTEM" in Foundry-work. What are the main functions of an Ideal Gating-system ? Explain with neat sketches.
- 5. Describe the functions of a file. How are the files classified ? What is the metal of files ?
- 6. Why are stakes used in sheet metal works? Describe any one with sketches.
- How would you differentiate between "FUSION-WELDING" and "PRESSURE-WELDING" ?
- What is forgeability ? Sketch any Two TYPES OF "RIVETS".
- 9. Name at least Five members of Smithying tools. Sketch any Two.

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PART-B

Attempt any Two Questions.All the Questionscarry Equal marks.(10-marks each)10x2=20

- In what way do varnishes differ from paints ? Explain step by step the painting process on a new wooden surface.
- **11.** Make a list of different Accessories and Attachments used with lathe machine. Describe any three with neat sketches.
- **12.** Enlist the different types of vices used in Fitting and Plumbing work. Describe any one in details with the help of neat sketches.
- How is soldering process is different from Brazing process ? Show the comparison of both. (minimum 5 points along with application).

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