



# BHARTIYA SKILL DEVELOPMENT UNIVERSITY

Registration No.: .....

**School of Woodworking Skills**  
**Session: 2021-22 (Winter Semester)**  
**B. Voc. Program, 3rd Semester,**  
**2<sup>nd</sup> In-Sem. Examination**

**Course Code: SCS1302**

**Time: 1 Hour**

**Course Name: Advanced Stationary Machines**

**Max. Marks: 20**

**Instruction: Attempt all the questions**

## Section – A

05X01 = 05 Marks

Q.1. Which one of the following running direction of scoring saw?

- (a) Down of the main saw (c) Opposite to the main saw  
(b) Same direction of the main saw (d) All of them

Q.2. Which one of the following is the function of protective hood?

- (a) It keeps the work piece in motion (c) It makes the cut smooth  
(b) It avoids kick back (d) All of them

Q.3. Which one of the following saw blades is used in panel saw?

- (a) Main saw & scoring saw (c) Scoring saw  
(b) Main saw (d) none of them

Q.4. Which one of the following is the minimum length of work piece to be machined in Thickness planer?

- (a) 300 mm (c) 260 mm  
(b) 150 mm (d) none of them

Q.5. Which one of the following is the cutter block speed of surface planer?

- (a) 5000 rpm (c) 4500 rpm  
(b) 3500 rpm (d) 2500 rpm

## Section – B

03X02 = 06 Marks

Q.6. Describe the function of scoring saw with figure.

Q.7. Write down the function of riving knife.

Q.8. Write down the safe and efficient hand position while working on panel saw machine.

## Section – C

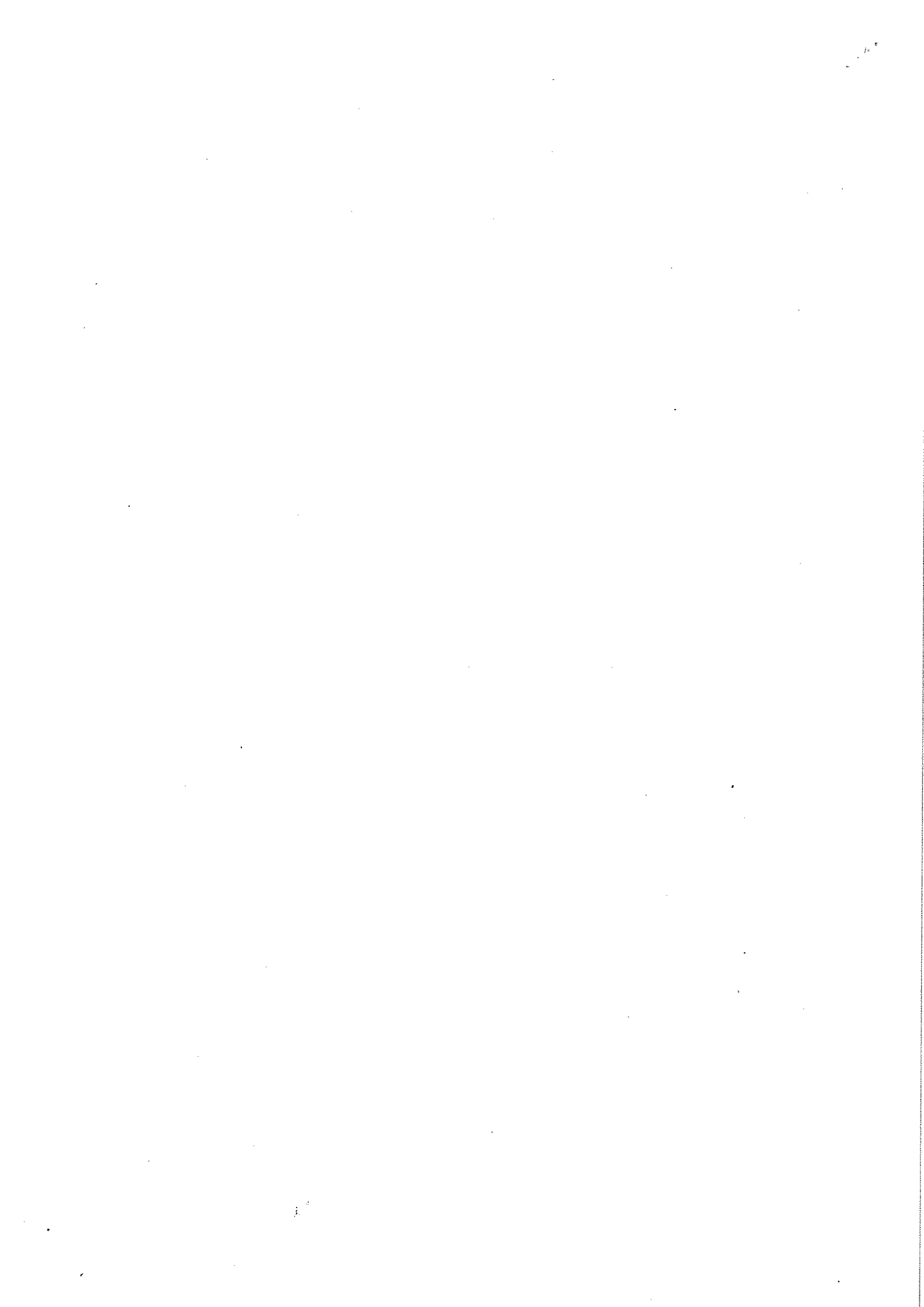
03X03 = 09 Marks

Q.9. Explain the difference between a high and low saw position of the Panel saw.

Q.10. What are the general safety rules that you should follow in the workshop?

Q.11. Write down the steps to change the blade of panel saw.

20.05.22  
A. D.





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Course Code: SCS1303

Time: 1 Hour

Course Name: Advance Assembly & Fittings

Max. Marks: 20

## Section – A

05X01 = 05 Marks

- Q.1. Which one of the following is a function of the runner?  
(A) used to facilitate fluid motion during opening and closing.  
(B) it is produce friction  
(C) it provides hard opening  
(D) none of them
- Q.2. Which one is a standard size of lamelo biscuit?  
(A) ten (B) six  
(C) twelve (D) eight
- Q.3. Which one of the following sign is helpful in assembly?  
(A) snake line (B) circle mark  
(C) Cross sign (D) None of these
- Q.4. Which one of the following Concealed hinge is used for single door cabinets?  
(A) half overlay hinge (B) full overlay hinge  
(C) inset hinge (D) b and c
- Q.5. Which one of the following is measure diameter of cam in knock down fitting?  
(A) 5mm (B) 10mm  
(C) 20mm (D) 15mm

## Section – B

03X02 = 06 Marks

- Q.6. Explain butt joint with its advantage and disadvantage.  
Q.7. Explain any three type of screws.  
Q.8. What is but hinge?

## Section – C

03X03 = 09 Marks

- Q.9. What is concealed hinge? Briefly explain the full overlay hinge, half overlay hinge and inset hinge with figure.  
Q.10. Briefly explain the sequential steps how to install but hinge.  
Q.11. Describe the work steps how to install drawer runner.

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A. G.





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Code: SCS1304

Time: 1 Hour

Course Name: Carpenter Mathematics

Max. Marks: 20

### Instruction:

- Answer all questions from section A, each question carries one mark.
- Answer all question from section B, each question carries two marks.
- Answer all question from section C, each question carries three marks.

### Section A

05X01 = 05 Marks

- Q. 1 Share is bought on which value  
(a) Market Value (b) Registered Value  
(c) Face Value (d) None of these
- Q. 2 Dividend is calculated on which  
(a) Face Value (b) Market Value  
(c) Both a & b (d) II, IV quadrants
- Q. 3 What will be the total surface area of a cube of side 4m in  $m^2$   
(a) 36 (b) 216  
(c) 64 (d) 96
- Q. 4 The lateral surface area of a cylinder having radius 7 cm and height 10cm would be in  $cm^2$   
(a) 748 (b) 308  
(c) 440 (d) None of them
- Q. 5 Dividend of one share of Rs 100 at 5% per annum is available at a premium of Rs 20  
(a) 10 (b) 5  
(c) 6 (d) 20

### Section B

03X02 = 06 Marks

- Q. 6 Calculate the money required to buy: (i) 350, Rs 20 shares at a premium of Rs 7. (ii) 275, Rs 60 shares at a discount of Rs 10.
- Q. 7 A company declares semiannual dividend of 6%. A man has 500 shares of NV Rs 25 each. Find his annual income.
- Q. 8 The area of a rhombus is  $240 cm^2$  and one of the diagonals is 16 cm. Find the other diagonal.

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A. H.



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## Section C

03X03 = 09 Marks

- Q. 9 In a building there are 24 cylindrical pillars. The radius of each pillar is 28 cm and height is 4 m. Find the total cost of painting the curved surface area of all pillars at the rate of 8 per  $m^2$
- Q. 10 An aquarium is in the form of a cuboid whose external measures are 80 cm  $\times$  30 cm  $\times$  40 cm. The base, side faces and back face are to be covered with a colored paper. Find the area of the paper needed?
- Q. 11 Mukul invests Rs 9000 in a company paying a dividend of 6% per annum when a share of NV Rs 100 stands at Rs 150. What is his annual income? If he sells 50% of his shares when the price rises to Rs 200, what is his gain in this transaction?



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Course Code: SCS1307

Time: 1 Hour

Course Name: Advanced Carpenter Materials

Max. Marks: 20

### Instruction:

- Answer all questions from section A, each question carries one mark.
- Answer all question from section B, each question carries two marks.
- Answer all question from section C, each question carries three marks

### Section A

05X01 = 05 Marks

- Q. 1 Which one sand paper will give a better surface finish?  
(A) P220 (B) P180  
(C) P100 (D) P150
- Q. 2 Which one is the natural abrasive  
(A) Silicon carbide (B) Aluminum oxide  
(C) Diamond (D) None of these
- Q. 3 Which stress group adhesive is suitable for bathroom doors  
(A) D1 (B) D2  
(C) D3 (D) D4
- Q. 4 The internal strength to adhesive layer is provided by  
(A) Gravitational force (B) Adhesive force  
(C) Cohesive force (D) none of these
- Q. 5 Which instrument is best for gluing narrow area  
(A) Roller (B) Brush  
(C) Both A & B (D) None of them

### Section B

03X02 = 06 Marks

- Q. 6 Write short notes on  
(a) Pot Life  
(b) Flash off time
- Q. 7 What do you understand by abrasive? Write down its applications
- Q. 8 Discuss briefly method of sanding

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A.G.



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## Section C

03X03 = 09 Marks

- Q. 9 What are the selection criteria for abrasive? Discuss in detail.
- Q. 10 What are various stress groups for adhesives? Discuss in detail.
- Q. 11 Discuss the method of applying adhesive