

Unit 5 - Week 3

Course outline
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Assignment 3

The due date for submitting this assignment has passed.
As per our records you have not submitted this assignment.

Due on 2020-10-07, 23:59 IST.

- 1) Glass is _____ and hence brittle. 1 point
- A. supercooled
 B. amorphous
 C. loosely packed structure
 D. crystalline
- No, the answer is incorrect.**
Score: 0
Accepted Answers:
B. amorphous
- 2) What is the impurity in glass which gives the edge of a glass sheet a greenish color? 1 point
- A. iron
 B. iron oxide
 C. cobalt oxide
 D. silica
- No, the answer is incorrect.**
Score: 0
Accepted Answers:
B. iron oxide
- 3) Read the statements P and Q and choose the appropriate option: 1 point
- Statement P:** Tempered glass can be cut
Statement Q: Tempered glass cannot be welded
- A. both the statements- P and Q, are correct
 B. statement P is correct, but statement Q is wrong
 C. statement P is wrong, but statement Q is correct
 D. both the statements are wrong
- No, the answer is incorrect.**
Score: 0
Accepted Answers:
C. statement P is wrong, but statement Q is correct
- 4) Which of the following mentions the CORRECT range of values (v) for Solar Heat Gain Coefficient of glass? 1 point
- A. $v > 1$
 B. $v < 1$
 C. $0 \leq v \leq 1$
 D. $2 \leq v \leq 3$
- No, the answer is incorrect.**
Score: 0
Accepted Answers:
C. $0 \leq v \leq 1$
- 5) What are some alternatives to using putty in sealing glass panes? Choose ALL that are correct. 1 point
- A. acrylic latex
 B. cyanoacrylate
 C. silicone caulk
 D. polyvinyl acetate
- No, the answer is incorrect.**
Score: 0
Accepted Answers:
*A. acrylic latex
C. silicone caulk*
- 6) What kind of glass is used in curtain walls? 1 point
- A. plate glass
 B. tempered glass
 C. float glass
 D. wired glass
- No, the answer is incorrect.**
Score: 0
Accepted Answers:
B. tempered glass
- 7) Which of the following glass products carries a health hazard if not handled professionally? 1 point
- A. glass block
 B. laminated glass
 C. glass wool
 D. GFRG panel
- No, the answer is incorrect.**
Score: 0
Accepted Answers:
C. glass wool
- 8) What is the fire resistance limit for GFRG panels? 1 point
- A. 300-500°C
 B. 1800-2000°C
 C. 700-1000°C
 D. None of these
- No, the answer is incorrect.**
Score: 0
Accepted Answers:
C. 700-1000°C.
- 9) What is the function of silica sand in the manufacture of ceramic tiles? (Choose ALL that apply.) 1 point
- A. gives plasticity to the mix
 B. decreases unfired strength and plasticity
 C. facilitate the escape of gases during drying and firing
 D. increases shrinkage of fired body
- No, the answer is incorrect.**
Score: 0
Accepted Answers:
*B. decreases unfired strength and plasticity
C. facilitate the escape of gases during drying and firing*
- 10) Suppose you are asked to select tiles for two rooms- sauna, and a library room for a project. Which of the anti-skid tile groups is most appropriate for each room (respectively)? 1 point
- A. Group A ; Group C
 B. Group C ; Group A
 C. Group B ; Group C
 D. Group C ; Group B
- No, the answer is incorrect.**
Score: 0
Accepted Answers:
B. Group C ; Group A
- 11) Choose the CORRECT match of the processes with their functions during glass manufacture: 2 points
- | | |
|--------------------------|-----------------------------|
| (P) flat drawing | (i) to get desired strength |
| (Q) annealing | (ii) to get desired shapes |
| (R) compression moulding | (iii) to get glass fibres |
| (S) blowing | (iv) to get glass sheets |
| (T) spinning | (v) to get moulded form |
- A. P-v, Q-i, R-iii, S-ii, T-iv
 B. P-i, Q-iii, R-v, S-ii, T-iv
 C. P-iv, Q-i, R-v, S-ii, T-iii
 D. P-iv, Q-ii, R-iii, S-v, T-i
- No, the answer is incorrect.**
Score: 0
Accepted Answers:
C. P-iv, Q-i, R-v, S-ii, T-iii
- 12) Selenium compounds and uranium oxides impart _____ and _____ color (respectively) to glass. 2 points
- A. red; yellow-green
 B. yellow-green; red
 C. deep blue; ruby red
 D. white; green
- No, the answer is incorrect.**
Score: 0
Accepted Answers:
A. red, yellow-green
- 13) The primary seal and secondary seal in double glazing units are made of: 2 points
- A. polyisobutylene, and silicone, respectively
 B. polystyrene, and silicone, respectively
 C. silicone, and polyisobutylene, respectively
 D. polyisobutylene, and polystyrene, respectively
- No, the answer is incorrect.**
Score: 0
Accepted Answers:
A. polyisobutylene, and silicone, respectively
- 14) Choose ALL the CORRECT statements regarding glass block masonry: 2 points
- A. Improvement in resistivity can be obtained by adding steel reinforcement
 B. Stiffer and drier mortar is needed for glass block masonry
 C. Edges of glass block are painted with polyvinyl butyral to improve mechanical bond
 D. The partial vacuum in glass blocks gives high thermal resistivity equivalent to a triple glazing unit
- No, the answer is incorrect.**
Score: 0
Accepted Answers:
*B. Stiffer and drier mortar is needed for glass block masonry
C. Edges of glass block are painted with polyvinyl butyral to improve mechanical bond*
- 15) Which of the following are CORRECT with respect to fixing of tiles? (Choose ALL that apply.) 2 points
- A. wall tiles are fixed by cement-sand mortar (1:4) and cement slurry
 B. Serrations are required to be made in the slurry layer for fixing wall tiles, but they are not important for fixing floor tiles
 C. for wall tiles, fixing may also be done using chemical adhesives
 D. spacers are used during fixing of tiles to allow for expansion of due to temperature changes
- No, the answer is incorrect.**
Score: 0
Accepted Answers:
*C. for wall tiles, fixing may also be done using chemical adhesives
D. spacers are used during fixing of tiles to allow for expansion of due to temperature changes*