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Question Paper Code : 27031

B.Arch. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2015

Second Semester

AR 6204 — BUILDING MATERIALS — II

(Regulations 2013)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. State the use of perforated brick.
2. Write a note on crushing strength.
3. Write a brief note on paving blocks.
4. What do you understand by earthenware glazing?
5. State the qualities you will consider in selecting timber for construction purpose?
6. Why anti termite treatments are required for timber?
7. List any four market forms of timber.
8. Differentiate MDF and HDF.
9. List the various defects in painting.
10. What are the ingredients of a Varnish?

PART B — (5 × 16 = 80 marks)

11. (a) What considerations govern the selection of a brick field for the manufacture of bricks? Discuss the operation of preparation of clay for the manufacture of bricks.

Or

- (b) Describe briefly the production process and the advantages of fly-ash bricks.

12. (a) (i) What are fire clays? State their constituents and importance.
(ii) Describe the process of manufacturing clay tiles.

Or

- (b) Explain the following
- (i) Paving bricks
 - (ii) Terracotta
 - (iii) Fully vitrified Tiles
 - (iv) Stoneware Pipes
13. (a) Explain the term seasoning of timber. What are the different methods adopted for the principal timber in India for constructional purposes? Describe with sketches one of the methods.

Or

- (b) Give the cross-section of a mature tree and name the different parts and explain the structure and growth of the tree.
14. (a) What is plywood and where is it used with advantages? State its uses in modern buildings.

Or

- (b) Classify wood as a prime material for designing interior spaces. What are the various kinds of natural wood and wood derivatives available in the market? Discuss their merits and demerits with their applications in various contexts of interior spaces.
15. (a) What are the different constituents of an oil paint? Describe briefly how each one of the constituent acts in imparting the desired qualities to the finished material.

Or

- (b) Mention the different types of varnishes and describe the process of varnishing on woodwork.
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Question Paper Code : 57047

B.Arch. DEGREE EXAMINATION, MAY/JUNE 2016

Second Semester

AR 6204 – BUILDING MATERIALS - II

(Regulations 2013)

Time : Three Hours

Maximum : 100 Marks

Answer ALL questions.

PART – A (10 × 2 = 20 Marks)

1. Write a short note on size and weight of brick.
2. What do you understand by modular bricks ?
3. What is meant by Terracotta ?
4. What do you understand by glazing in ceramic and vitrified tiles ?
5. List any four defects of Timber.
6. Why anti termite treatments are required for timber ?
7. Differentiate particle board and fibre board
8. Explain the method to fire resist the timber materials.
9. List the various defects in painting.
10. What are the characteristics of good Varnish ?

PART – B (5 × 16 = 80 Marks)

11. (a) What are the different forms of bricks ? Explain the process involved in manufacture of bricks. (16)

OR

- (b) (i) Describe the tests performed to check the quality of Bricks, (10)
(ii) Write the advantages and disadvantages of light weight bricks (6)

12. (a) (i) What are fire clays ? State their constituents and importance (10)
(ii) Describe the process of manufacturing clay tiles. (6)

OR

- (b) Explain the types of characteristic and use of the following :
(i) Hollow bricks (6)
(ii) Porcelain (4)
(iii) Stoneware pipes and Ceramic sanitary appliances (6)

13. (a) What do you understand by seasoning of Timber ? Explain the methods used for seasoning of Timber. (16)

OR

- (b) Give the cross-section of a mature tree and name the different parts and explain the structure and growth of the tree. (16)

14. (a) (i) What are the advantages of wood based panels ? (8)
(ii) Explain the different methods of veneering. (8)

OR

- (b) Classify wood as a prime material for designing interior spaces. What are the various kinds of natural wood and wood derivatives available in the market ? Discuss their merits and demerits with their applications in various contexts of interior spaces. (16)

15. (a) Describe the special purpose paints and their properties, uses and application. (16)

OR

- (b) Mention the different types of varnishes and describe the process of varnishing on woodwork. (16)

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Question Paper Code : 71390

B.Arch. DEGREE EXAMINATION, APRIL/MAY 2017.

Second Semester

AR 6204 — BUILDING MATERIALS – II

(Regulations 2013)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. What are Light weight bricks?
2. What is a fly ash brick?
3. What is a hollow brick?
4. Name any two clay products.
5. Write the uses of timber.
6. Brief the seasoning of timber.
7. Write any two market forms of timber.
8. Write any two uses of ceramic glazed tiles.
9. Name any two types of varnishing.
10. Write the difference between wood and timber.

PART B — (5 × 16 = 80 marks)

11. (a) Write down the classification and explain the characteristics of bricks.

Or

- (b) Explain the different forms of Bricks with sketches.

12. (a) Discuss the manufacture of burnt clay bricks and their uses.

Or

(b) Explain the manufacture and application of Earthenware Glazing.

13. (a) Explain the various types of market forms of timber with sketches and their applications.

Or

(b) Explain the following :

(i) Conservation of timber (4)

(ii) Decay of timber (4)

(iii) Preservation of timber (4)

(iv) Seasoning of timber. (4)

14. (a) Discuss the properties of timber and its application in Building Industry with sketches.

Or

(b) Discuss the advantages and application of Industrial timber.

15. (a) Discuss the composition and characteristics of different types of Paints.

Or

(b) List down the various types of earthen tiles and their applications in architecture.

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Question Paper Code : 77017

B.Arch. DEGREE EXAMINATION, APRIL/MAY 2015

Second Semester

AR 6204 — BUILDING MATERIALS – II

(Regulation 2013)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. What are sun dried Bricks.
2. Brief the classification of Bricks.
3. Write the uses of timber.
4. Name any four clay products.
5. Sketch a pan tile.
6. Name any two types of varnishing.
7. Name any two market forms of timber.
8. Brief the conservation of timber.
9. What are Light weight bricks?
10. Brief the uses of Glazing.

PART B — (5 × 16 = 80 marks)

11. (a) Explain the manufacturing process of various types of Bricks.

Or

- (b) Explain the application of various types of bricks in buildings with case studies and sketches.

12. (a) Explain the properties, characteristics, strength and manufacturing process of clay products.

Or

- (b) Explain the application of various types of roofing materials with case studies and sketches.

13. (a) Explain the production, properties and application of timber in buildings.

Or

- (b) Explain the following :

(i) Seasoning of timber (8)

(ii) Decay of timber. (8)

14. (a) Explain the various process involved in painting and varnishing of timber in different surfaces.

Or

- (b) Explain the different types of varnishing their uses and costs of materials.

15. (a) Explain with sketches the various market forms of timber.

Or

- (b) Explain with sketches the various forms of Timber products.
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Question Paper Code : 80071

B.Arch. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2016.

Second Semester

AR 6204 — BUILDING MATERIALS — II

(Regulations 2013)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. State the harmful ingredients in brick earth.
2. How are bricks dried?
3. Write short notes on clay Jallis.
4. What are the characteristics of a good tile?
5. Write a brief notes on the effects of moisture on mechanical properties of wood.
6. How are timbers classified with respect to seasoning?
7. Write the advantages of block boards.
8. Why is it necessary to provide odd number of veneers in plywood?
9. What is the function of adulterant in the paint?
10. What is French polish?

PART B — (5 × 16 = 80 marks)

11. (a) (i) Describe the process of obtaining fly-ash. (12)
- (ii) How is the fly ash disposed off? (4)

Or

- (b) Describe the process of burning bricks in intermittent kilns.

12. (a) (i) Write the manufacturing process of terracotta. (10)
(ii) Write the uses, advantages and disadvantages of terracotta. (6)

Or

- (b) (i) What are fire clays? (2)
(ii) Describe the process of manufacturing clay tiles. (14)
13. (a) (i) Draw a neat cross-section of an exogenous tree and show various components of it. (8)
(ii) Explain the method of cutting of trees for timber used in construction. (8)

Or

- (b) Explain the causes of decay of timber and its treatment.
14. (a) What are the different types of wood based products available in the market? Explain its advantages and disadvantages.

Or

- (b) (i) What is plywood? (2)
(ii) Explain the advantages and applications of plywood in Buildings . (14)
15. (a) (i) Mention the different types of varnishes. (8)
(ii) Describe the process of varnishing on wood work. (8)

Or

- (b) (i) Describe the different types of paints. (10)
(ii) Write the advantages and disadvantages of using paints in buildings. (6)
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Question Paper Code : 97211

B.Arch. DEGREE EXAMINATION, DECEMBER 2015/JANUARY 2016.

Second Semester

AR 6204 — BUILDING MATERIALS – II

(Regulations 2013)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. Write a short note on size and weight of brick.
2. What do you understand by modular bricks?
3. What is meant by Terracotta?
4. What do you understand by glazing?
5. List any four defects of Timber.
6. Why anti termite treatments are required for timber?
7. Differentiate particle board from fiber board.
8. Write a note on Veneer.
9. List the various defects in painting.
10. What are the characteristics of a good Varnish?

PART B — (5 × 16 = 80 marks)

11. (a) What are the different forms of bricks? Explain the process involved in manufacture of bricks.

Or

- (b) (i) Describe the tests performed to check the quality of Bricks.
- (ii) Write the advantages and disadvantages of light weight bricks.

12. (a) (i) What are fire clays? State their constituents and importance.
(ii) Describe the process of manufacturing clay tiles.

Or

- (b) Explain the following :
- (i) Hollow bricks
 - (ii) Porcelain
 - (iii) Stoneware Pipes
 - (iv) Ceramic sanitary Appliances.
13. (a) What do you understand by seasoning of Timber? Explain the methods used for seasoning of Timber.
- Or
- (b) Give the cross-section of a mature tree and Name the different parts and explain the structure and growth of the tree.
14. (a) (i) What are the advantages of wood based panels?
(ii) Explain the different methods of veneering.

Or

- (b) Classify wood as a prime material for designing interior spaces. What are the various kinds of natural wood and wood derivatives available in the market? Discuss their merits and demerits with their applications in various contexts of interior spaces.
15. (a) Describe the special purpose paints and their properties, uses and application.

Or

- (b) Mention the different types of varnishes and describe the process of varnishing on woodwork.
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