

10107

Reg. No.: _____

Name: _____

FIRST SEMESTER B.TECH DEGREE EXAMINATION, JANUARY 2016

Course Code: BE101-01

Course Name: INTRODUCTION TO CIVIL ENGINEERING

Max. Marks: 100

Duration: 3 Hours

Part A

Answer ALL questions. Each question carries 1 mark

1. What is a retaining wall?
2. What is the minimum compressive strength of brick?
3. List out the grades of Ordinary Portland Cement.
4. Which is the strongest bond in brickwork?
5. What is the full form of TMT steel?
6. Write any one relevant factor for selecting suitable flooring material

Part B

Answer ALL questions. Each question carries 5 marks

7. a) List out the various building components of your house (2)
(b) Give the functions of any three building components. (3)
8. List out the various types of tiles used in civil engineering. (5)
9. What are fine aggregates and coarse aggregates?. Write a laboratory test for assessing the grading of aggregates. (2+3)
10. Draw the plan and elevation of (a) One and half brick wall (b) Two brick wall, in English bond (2.5+2.5)
11. What are the uses of mild steel? (5)
12. What are the different types of roofing material? (5)

Part C

Answer Any 3 questions. Each question carries 6 marks

13. Explain setting out of a building
14. Classify the types of buildings as per National Building Code of India
15. Discuss the various tests conducted on roofing tiles.

16. Explain the classification of stones.

Answer Any 3 questions. Each question carries 6 marks

17. Explain (a) Fineness test of cement (b) Initial and final setting time test of cement (3+3)
18. Sketch the flow diagram in dry process of manufacture cement (6)
19. What are the essential features of English bond? (6)
20. Compare brick masonry and stone masonry? (6)

Part D

Answer Any 4 questions. Each question carries 7 marks

21. (a) What is meant by seasoning of timber? (2)
- (b) Explain three different methods of seasoning. (5)
22. Discuss any seven defects occurring in timber. (7)
23. Sketch and explain any three structural steel sections (7)
24. What are the different flooring materials and factors affecting its selection? (7)
25. List out seven advantages and disadvantages of flat roof. (7)

10108

Reg. No.: _____

Name: _____

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY
FIRST SEMESTER B.TECH DEGREE EXAMINATION, JUNE 2016

Course Code: BE101-01

Course Name: INTRODUCTION TO CIVIL ENGINEERING

Max. Marks: 100

Duration: 3 Hours

PART A

Answer ALL questions. Each question carries 1 mark

1. The discipline of civil engineering that deals with purification of drinking water and waste water disposal is _____.
2. How igneous rocks are formed?
3. Which cement is ideal for under water construction?
4. What is a brick bat?
5. What is seasoning of timber?
6. Define span of a roof.

PART B

Answer ALL questions. Each question carries 5 marks

7. Explain setting out of a building.
8. Describe any 3 tests conducted on stones.
9. Give reasons for the following: (i) During the grinding of cement a small quantity of gypsum is added (ii) The proportion of lime in cement is to be carefully maintained (2.5 marks each)
10. Make a short note on Random rubble masonry.
11. What are the defects found in timber?
12. Write the criteria for selection of roofing materials.

PART C

Answer Any Three questions. Each question carries 6 marks

13. Draw a neat section of a residential building showing various components?
14. Classify the types of buildings as per National Building Code of India.
15. Describe about the classification of bricks.
16. What are the qualities of a good building stone?

Answer Any Three questions. Each question carries 6 marks

17. Explain with a schematic diagram, the different steps involved in wet process for the manufacturing of cement.
18. Explain the different tests for coarse aggregates.
19. Draw the plan and elevation of (a) One brick wall (b) One and half brick wall (c) Two brick wall, in English bond. (2 marks each)
20. What are the different types of ashlar rubble masonry?

PART D

Answer Any Four questions. Each question carries 7 marks

21. Compare the characteristics of soft wood and hard wood in timber.
22. Sketch and explain any three structural steel sections.
23. Compare different aspects of natural seasoning and artificial seasoning.
24. What are the different flooring materials and explain factors affecting choice of flooring material?
25. Explain the different types of sloping roofs with neat diagrams.

10109

Reg. No.: _____

Name: _____

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY

FIRST SEMESTER B.TECH DEGREE SPECIAL EXAMINATION, SEPTEMBER 2016

Course Code: BE101-01**Course Name: INTRODUCTION TO CIVIL ENGINEERING**

Max. Marks: 100

Duration: 3 Hours

PART A*Answer ALL questions. Each question carries 1 mark*

1. The branch of civil engineering which deals with soil and foundation is called.....
2.is an example of sedimentary rock.
3. The main ingredient used in the manufacture of Ordinary Portland Cement is
4. Define a queen closer.
5. The abbreviation R.S.J stands forin steel sections.
6. List two types of flooring materials

PART B*Answer ALL questions. Each question carries 5 marks*

7. How buildings are classified based on occupancy as per National Building Code?
8. What are the different methods of quarrying?
9. Write three laboratory tests for assessing the quality of cement.
10. Write any three essential features of an English bond
11. What do you mean by preservation of timber & list the various methods of preservation of timber?
12. List out the types of floor and floor covering.

PART C*Answer Any Three questions. Each question carries 6 marks*

13. What is the role of civil engineers in infrastructure development?
14. Explain a) dams b) silos c) roads d) chimneys

15. What are the constituents of a good brick earth?
16. Explain three different tests on tiles.

Answer Any Three questions. Each question carries 6 marks

17. What are the constituents of ordinary Portland cement? Explain the functions of each constituent.
18. Explain the different tests on aggregates.
19. Enumerate the different types of bonds used in brick masonry.
20. What are the different types of rubble masonry?

PART D

Answer Any Four questions. Each question carries 7 marks

21. Explain five methods of artificial seasoning of timber.
22. How is particle board manufactured? What are the specific usages of particle board?
23. Classify steel based on its carbon content and explain its engineering applications.
24. What are the different types of flat roof used in building construction? Explain with neat sketches.
25. Explain with neat sketch the different components of a steel roof truss.

Reg. No. _____ Name: _____

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY
FIRST SEMESTER B. TECH DEGREE EXAMINATION, JANUARY 2017Course Code: **BE101-01**Course Name: **INTRODUCTION TO CIVIL ENGINEERING**

Max. Marks: 100

Duration: 3 Hours

PART A*Answer ALL questions. Each question carries ONE mark*

1. What is meant by assembly building?
2. Which is the major constituent in good brick earth? If it is excess, how does it affect the quality of brick?
3. What is indicated by grade of cement?
4. Define bonding in brick masonry.
5. What is meant by seasoning of timber? List the various methods of seasoning of timber.
6. Differentiate gable roof and gambrel roof.

PART B*Answer ALL questions. Each question carries FIVE marks*

7. How will you set out a room of size 5m X 6m?
8. What are the qualities of good building stones?
9. What are the basic ingredients of cement? Explain the functions of each?
10. Differentiate rubble masonry and ashlar masonry.
11. What are the defects due to natural forces in timber? Explain any *four*?
12. List the advantages of flat roof compared to sloped roof.

PART C

Answer ANY THREE questions. Each question carries SIX marks

13. What is the relevance of Civil Engineering in the infrastructural development of the country?
14. Explain the functions of any *four* components of a building with a neat sketch.
15. Write the procedure of any *three* tests for checking the quality of stones?
16. List out the quality tests on bricks. Explain any *two* in detail.

Answer ANY THREE questions. Each question carries SIX marks

17. Write the test procedure for finding the initial setting time of cement. What is its specification?
18. Define fineness modulus of aggregates. Write test procedure for finding out the fineness modulus.
19. Explain *any two* types of ashlar masonry with neat sketches.
20. Draw the plan and elevation of *two brick thick* English bond.

PART D

Answer ANY FOUR questions. Each question carries SEVEN marks

21. Explain the manufacturing process of particle board? What are its uses and advantages?
22. List out the market forms of steel. Explain *any two* with figure?
23. What are the selection criteria for flooring material?
24. What are the different types of sloped roofs? Explain *any two* with figure?
25. What are the factors to be considered while selecting the roofing materials?

Reg. No. _____ Name: _____

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY
FIRST SEMESTER B.TECH DEGREE EXAMINATION, JULY 2017

Course Code: **BE101-01**Course Name: **INTRODUCTION TO CIVIL ENGINEERING**

Max. Marks: 100

Duration: 3 Hours

PART A*Answer ALL questions. Each question carries 1 mark*

1. What is the function of foundation of the building?
2. What is efflorescence?
3. List the major ingredients of cement with their general percentages?
4. What is bonding in brick masonry?
5. What is plain carbon steel?
6. What is roof pitch and how would you determine it?

PART B*Answer ALL questions. Each question carries 5 marks*

7. Classify the types of building as per national building code of India. (5)
8. What are the factors to be considered while selecting tiles? (5)
9. What is fineness modulus of aggregates? Explain the laboratory test for assessing the Fineness modulus. (2+3)
10. Draw the plan and elevation of (a) one brick thick (b) one and a half brick thick english bond. (2.5+2.5)
11. List down the various market forms of structural steel. Explain *two* of them in detail. (5)
12. What are the various factors affecting the choice of flooring materials? (5)

PART C*Answer Any 3 questions. Each question carries 6 marks*

13. What are the factors affecting selection of site of residential buildings?
14. With a neat sketch, show the different components of a building structure and indicate the functions of any *three* components.
15. Explain the manufacturing process of tiles.
16. Explain the formation of different rocks coming under geological classification of rocks. Give *two* examples for each of them.

Answer Any 3 questions. Each question carries 6 marks

17. Explain the laboratory test methods for determining (a) Consistency test of cement (b) soundness test of cement. (3+3)
18. With a flow diagram, explain the manufacturing process of cement. (6)
19. Differentiate between rubble and ashlar masonry. Explain different classes of rubble masonry. (6)
20. List the different types of bonds. Compare english bond with flemish bond. (6)

PART D

Answer Any 4 questions. Each question carries 7 marks

21. (a) What is meant by preservation of timber? (1)
(b) What are the various preservatives used. Explain the method of preservation by means of any *three* preservatives. (6)
22. Explain in detail the *three* different causes for defects in timber. (7)
23. Differentiate between TMT and HYSD bars. Describe the properties of each of them in detail. (7)
24. With neat sketches, explain king post truss and queen post truss. (7)
25. List the different types of flat roofs. Explain *two* of them in detail with neat sketches. (7)

Reg No.: _____

Name: _____

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY
FIRST SEMESTER B.TECH DEGREE EXAMINATION, DECEMBER 2017

Course Code: BE101-01

Course Name: INTRODUCTION TO CIVIL ENGINEERING

Max. Marks: 100

Duration: 3 Hours

PART A

Answer all questions, each carries 1 mark.

		Marks
1	List any four types of civil engineering structures.	(1)
2	List any four methods of quarrying of stones	(1)
3	What is meant by 43 grade cement?	(1)
4	In which type of construction zig zag bond is used?	(1)
5	List any four types of steel used in building construction.	(1)
6	List any four types of roof covering materials used for pitched roof.	(1)

PART B

Answer all questions, each carries 5 marks.

7	List out the general classification of buildings according to NBC (Description is not required). Classify the below buildings (Subdivision should be taken into account). Factory, Nuclear plant, Garage, Cinema theatre, Hospitals, Regular school building.	(5)
8	Describe any two tests on building stone with IS specification.	(5)
9	What are the ingredients of cement? What is their relevance in quality of cement?	(5)
10	What are the advantages and disadvantages of stone masonry over brick masonry?	5
11	Sketch and explain any six types of defects in timber. How it will affect the quality of timber?	(5)
12	Describe any four types of floor covering materials. Indicate under what situations these can be used.	(5)

PART C

Module I & II

Answer any three full questions, each carries 6 marks.

13	With a neat sketch mark the different components of a building and indicate the function of each one.	(6)
14	What are the different types of roofing tiles? Explain the different steps involved in the manufacturing of roofing tiles.	(6)
15	a) What is meant by setting out of a building? Explain the process of setting out for constructing a building	(4)
	b) List the different tests for determining the quality of brick. Explain any two with IS specification.	(2)
16	a) Differentiate between Chimneys and Silos.	(2)
	b) What is meant dressing of stones? Explain any four methods.	(4)

Module III & IV

Answer any three full questions, each carries 6 marks.

- 17 Name the different lab tests on cement. Explain the determination of setting time of cement with IS specification. Mention any two field tests also. (6)
- 18 Draw the plan, section and elevation of two consecutive courses of one and a half brick thick wall in English bond. (6)
- 19 a) Explain the procedure for the determination of aggregate crushing value with IS specification. (3)
- b) Differentiate between dry rubble masonry and polygonal masonry with necessary sketches. (3)
- 20 a) List the different types of mortar. Explain the preparation of cement mortar. (3)
- b) Differentiate between header bond and stretcher bond with necessary sketches. (3)
- For which type of construction this can be used.

Module V & VI

Answer any four full questions, each carries 7 marks.

- 21 a) Explain the process of manufacturing of particle board. (3)
- b) Explain any four types of steel with their uses. (4)
- 22 What is meant by seasoning of timber. Explain the different methods of artificial seasoning. (7)
- 23 Draw a neat sketch of a sloping roof and mark the different parts. Under what situations this can be used (7)
- 24 a) What are the factors affecting the selection of floor covering materials. (4)
- b) List any three types of floor covering materials. State under what type of building these are used. (3)
- 25 a) Explain any two types of timber products available in the market with their uses. (4)
- b) Differentiate between flat roof and sloping roof. (3)

Reg No.: _____

Name: _____

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY
FIRST SEMESTER B.TECH DEGREE EXAMINATION, APRIL 2018

Course Code: BE101-01

Course Name: INTRODUCTION TO CIVIL ENGINEERING

Max. Marks: 100

Duration: 3 Hours

PART A

Answer all questions, each carries 1 mark.

Marks

- | | | |
|---|--|-----|
| 1 | The branch of Civil Engineering dealing with flow characteristics and mechanics of water is known as | (1) |
| 2 | Define seasoning of stones. | (1) |
| 3 | Which are the different grades of ordinary Portland cement? | (1) |
| 4 | Define a stretcher course. | (1) |
| 5 | What is the carbon content in mild steel, medium carbon steel and high carbon steel? | (1) |
| 6 | Define pitch of a roof. | (1) |

PART B

Answer all questions, each carries 5 marks.

- | | | |
|----|---|-----|
| 7 | Explain setting out of building. | (5) |
| 8 | What is meant by quarrying of stones? What are the different methods of quarrying and explain any one method in detail. | (5) |
| 9 | a) What is meant by bulking of sand. | (2) |
| | b) State the properties of good sand. | (3) |
| 10 | Write short note on Random Rubble masonry. | (5) |
| 11 | What are the various defects occur in timber due to natural forces. | (5) |
| 12 | Write the requirements of a Good roofing material. | (5) |

PART C

Module I & II

Answer any three full questions, each carries 6 marks.

- | | | |
|----|---|-----|
| 13 | Explain various components of a residential building. Give the functions of any three components. | (6) |
| 14 | Classify various types of buildings on the basis of occupancy as per National Building Code of India. | (6) |
| 15 | What are the qualities of good building bricks? | (6) |
| 16 | Explain the manufacture of clay tiles. | (6) |

Module III & IV

Answer any three full questions, each carries 6 marks.

- | | | |
|----|--|-----|
| 17 | a) What are the various steps involved in the manufacturing of Ordinary Portland Cement. | (2) |
|----|--|-----|

- b) With the help of a flow chart explain any one method for mixing raw materials during manufacturing of cement. (4)
- 18 a) State the important properties of mortar. (3)
b) Explain the preparation of mortar by Hand mixing. (3)
- 19 What are the different types of ashlar rubble masonry (6)
- 20 a) Differentiate between English Bond and Flemish Bond. (3)
b) Draw the plan and elevation of one brick wall in English Bond. (3)

Module V& VI

Answer any four full questions, each carries 7 marks.

- 21 What is meant by seasoning of timber? Explain different methods of seasoning of timber. (7)
- 22 Write short notes on Particle Board & Hard Board. (7)
- 23 What are the various types of steel sections manufactured and marketed? Explain any three structural steel sections with neat sketch. (7)
- 24 a) What are the different types of floors? (4)
b) What are the various Criteria for selecting Flooring materials? (3)
- 25 What are the advantages and disadvantages of Flat roofs? Explain any two types of flat roofs. (7)

Reg No.: _____

Name: _____

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY
FIRST SEMESTER B.TECH DEGREE EXAMINATION, DECEMBER 2018

Course Code: BE101-01

Course Name: INTRODUCTION TO CIVIL ENGINEERING

Max. Marks: 100

Duration: 3 Hours

PART A

Answer all questions, each carries 1 mark.

		Marks
1	Define taxiway.	(1)
2	What is meant by dressing of stone?	(1)
3	What are the ingredients of cement mortar?	(1)
4	Define course in masonry.	(1)
5	What is mild steel?	(1)
6	Define gable roof.	(1)

PART B

Answer all questions, each carries 5 marks.

7	What is a retaining wall? What are the different types?	(5)
8	Explain any two tests on tiles.	(5)
9	What are the various field tests to assign the quality of a given pack of cement?	(5)
10	Compare Brick masonry and stone masonry	(5)
11	List the defects in timber due to improper seasoning and conversion.	(5)
12	What are the different flooring material and its selection criteria?	(5)

PART C

Module 1& II

Answer any three full questions, each carries 6 marks.

13	What are the selection criteria for a dam site?	(6)
14	Write short notes on the following terms a) Plinth b) Lintel c) Sill d) Foundation	(6)
15	Explain the important properties of good bricks.	(6)
16	What is a quarry? Explain the different methods of quarrying.	(6)

Module III& IV

Answer any three full questions, each carries 6 marks.

17	Explain the desirable properties of aggregates with regards to shape, texture, (6)
----	--

- specific gravity and bulk density.
- 18 What is meant by bulking of sand? What is the role of sand in cement mortar? (6)
- 19 Define the following in stone masonry. a) Quoin stone b) Through stone (6)
c) Facing
- 20 Draw the plan and elevation of 1-brick wall English Bond. (6)

Module V& VI

Answer any four full questions, each carries 7 marks.

- 21 Write short note on air seasoning and water seasoning. (7)
- 22 Distinguish between particle board and hard board. (7)
- 23 What are the various preservatives used in timber? Explain the method of (7)
preservation by means of anythree preservatives.
- 24 Sketch and explain any three structural steel sections. (7)
- 25 What are the different flooring materials and explain factors affecting the (7)
choice of flooring materials.

Reg No.: _____

Name: _____

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY
FIRST SEMESTER B.TECH DEGREE EXAMINATION(S), MAY 2019

Course Code: BE101-01

Course Name: INTRODUCTION TO CIVIL ENGINEERING

Max. Marks: 100

Duration: 3 Hours

PART A

Answer all questions, each carries 1 mark.

		Marks
1	What is a silo?	(1)
2	What is efflorescence in bricks?	(1)
3	Define standard consistency.	(1)
4	What is dry masonry?	(1)
5	What is tor steel?	(1)
6	Define span of a roof.	(1)

PART B

Answer all questions, each carries 5 marks.

7	How buildings are classified based on fire resistance offered by buildings?	(5)
8	Describe briefly various methods of quarrying.	(5)
9	List the desirable qualities of aggregate for concrete.	(5)
10	Define the following terms with respect to brick masonry a) King closer b) Queen closer c) Bat d) Quoin header e) Course	(5)
11	What are the defects in timber?	(5)
12	What are the different roofing materials and its selection criteria?	(5)

PART C

Module I & II

Answer any three full questions, each carries 6 marks.

13	How buildings are classified based on National Building Code?	(6)
14	What are the different parts of a building? Explain with neat sketches?	(6)
15	Explain the laboratory tests on bricks.	(6)
16	Discuss the steps involved in the manufacture of tiles.	(6)

Module III & IV

Answer any three full questions, each carries 6 marks.

17	Write the composition of ordinary cement indicating the required percentage and function of each ingredient.	(6)
18	Explain the tests to determine the flakiness index and elongation index of aggregate.	(6)

- 19 Explain the classification of stone masonry. (6)
- 20 Explain the English bond and Flemish bond in brick masonry with neat figures. (6)

Module V & VI

Answer any four full questions, each carries 7marks.

- 21 Explain the different methods of preservation of timber. (7)
- 22 Describe the manufacturing process and uses of hard board and particle board. (7)
- 23 Discuss the use and properties of mild steel, medium steel and high carbon steel. (7)
- 24 What is a truss? Sketch any three types of truss. (7)
- 25 Write short notes on (7)
- a) Terrazzo flooring
 - b) Tiled flooring

Reg No.: _____

Name: _____

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY
FIRST SEMESTER B.TECH DEGREE EXAMINATION(S), DECEMBER 2019

Course Code: BE101-01

Course Name: INTRODUCTION TO CIVIL ENGINEERING

Max. Marks: 100

Duration: 3 Hours

PART A

Answer all questions, each carries 1 mark.

		Marks
1	What is a retaining wall?	(1)
2	List different types of roofing tiles.	(1)
3	Define fineness modulus of aggregate.	(1)
4	What is rubble masonry?	(1)
5	What are knots in timber?	(1)
6	What type of roof is preferred in areas of heavy rainfall?	(1)

PART B

Answer all questions, each carries 5 marks.

7	Explain residential buildings and educational buildings as per NBC.	(5)
8	What are the steps involved in the manufacturing of bricks?	(5)
9	What are the basic ingredients of cement?	(5)
10	Compare Brick masonry and Stone masonry	(5)
11	Write short notes on Particle Board and Hard Board.	(5)
12	What are the different flooring materials and its selection criteria?	(5)

PART C

Module I & II

Answer any three full questions, each carries 6 marks.

13	What are the criteria for the selection of site for a residential building?	(6)
14	What are the different parts of a building? Explain with neat sketches?	(6)
15	Write the field tests on bricks.	(6)
16	Explain classification of stones.	(6)

Module III & IV

Answer any three full questions, each carries 6 marks.

17	Explain any three tests on aggregate.	(6)
18	What is cement mortar? What are its uses?	(6)
19	With neat sketches, explain the classification of Ashlar masonry.	(6)
20	Draw the plan and elevation of 1- brick wall English Bond.	(6)

Module V & VI

Answer any four full questions, each carries 7marks.

- 21 Explain the different methods of preservation of timber. (7)
- 22 Explain the manufacturing process of hard board? What are its uses and advantages? (7)
- 23 Differentiate between TMT and HYSD bars. Describe the properties of each of them in detail. (7)
- 24 What is a truss? Sketch any three types of trusses. (7)
- 25 List out the different types of floor covering materials. Explain any three types in detail. (7)

Reg No.: _____

Name: _____

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY
B.Tech degree examinations (S), September 2020 (S1/S2 - 2015 Scheme)

Course Code: BE101-01

Course Name: INTRODUCTION TO CIVIL ENGINEERING

Max. Marks: 100

Duration: 3 Hours

PART A

Answer all questions, each carries 1 mark.

- | | Marks |
|--|-------|
| 1 List the different types of dams? | (1) |
| 2 Define closer and bat of a brick. | (1) |
| 3 Define soundness of cement. | (1) |
| 4 Differentiate between stretcher and header of a brick. | (1) |
| 5 What is the yield strength of mild steel? | (1) |
| 6 What is King Post truss? | (1) |

PART B

Answer all questions, each carries 5 marks.

- | | |
|--|-----|
| 7 List any five important roles of a Civil Engineer in society. | (5) |
| 8 What are the important tests to determine the properties of a good building stone? | (5) |
| 9 Explain how to ascertain the grading of aggregate. | (5) |
| 10 What are the different types of Ashlar masonry? | (5) |
| 11 Explain the manufacturing process of particle board. | (5) |
| 12 What are the different types of flooring material? | (5) |

PART C

Module I & II

Answer any three full questions, each carries 6 marks.

- | | |
|--|-----|
| 13 What are the selection criteria for an industrial site? | (6) |
| 14 Explain setting out of a building. | (6) |
| 15 What are the major ingredients of brick earth? | (6) |
| 16 What are the steps involved in the manufacturing of tile? | (6) |

Module III & IV

Answer any three full questions, each carries 6 marks.

- | | |
|---|-----|
| 17 What is mortar? Explain its various functions. | (6) |
| 18 How will you determine the aggregate impact value? | (6) |

- 19 With neat sketches explain any three types of brick bonds used in masonry. (6)
- 20 Explain any three types of rubble masonry with neat sketches. (6)

Module V& VI

Answer any four full questions, each carries 7 marks.

- 21 Explain the different methods of preservation of timber. (7)
- 22 What are the various tests on timber? (7)
- 23 Discuss the use and properties of mild steel, medium steel and high carbon steel. (7)
- 24 Explain the different types of floors. (7)
- 25 What are the different types of roofs? Explain any two with figure. (7)
