

THIAGARAJAR POLYTECHNIC COLLEGE, SALEM
(Autonomous)

Reg. No.

October/November 2019 Examinations
DIPLOMA IN ARCHITECTURAL ASSISTANTSHIP
Theory of Architecture

Year/Sem: II / III (ODD-II)

Max. Marks : 75

Time : 3 hr.

PART-A**(5 x 2 = 10 Marks)**

**Note: (i) Answer any FIVE questions out of which question No.8 is compulsory.
(ii) All questions carry equal marks.**

- 1 What is architecture design?
- 2 Mention two building example for the shape pyramid.
- 3 What is subtractive form?
- 4 What are symmetry and Asymmetry in architecture?
- 5 What is fluidity in architecture?
- 6 What is interlocking spaces?
- 7 What is clustered organization?
- 8 What is circulation?

PART-B**(5 x 3 = 15 Marks)**

**Note: (i) Answer any FIVE questions out of which question No. 16 is compulsory.
(ii) All questions carry equal marks.**

- 9 Write about architecture and origin of architecture.
- 10 Write about vertical space defining element.
- 11 Write about pattern with building example.
- 12 Write about colour and contrast.
- 13 Write about space linked by a common space with suitable example.
- 14 Mention the philosophies of F.L Wright.
- 15 Write about surface articulation.
- 16 Write about any one postmodern architect from the syllabus.

PART-C**(5 x 10 = 50 Marks)**

Note: (i) Answer all the questions choosing either sub-division (A) or sub-division (B) of each question.

(ii) All questions carry equal marks.

- 17 A Differentiate between architects and civil engineers. 10
(OR)
B Explain in detail about the elements of architecture with suitable building example. 10
- 18 A Explain the visual and emotional effects of the sphere with suitable examples. 10
(OR)
B Explain in detail the space defining elements with suitable sketches. 10
- 19 A Explain the ordering principles rhythm and hierarchy with suitable examples. 10
(OR)
B Explain the principles of composition dominance and punctuating effects with suitable examples. 10
- 20 A Explain in detail the adjacent spaces with suitable examples. 10
(OR)
B Explain in detail the works of le Corbusier with suitable example. 10
- 21 A Explain in detail the works of Philip Johnson with suitable examples. 10
(OR)
B Explain in detail the works of Michal graves with suitable examples. 10

Code: 150-8202

ARCH

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October/November 2019 Examinations
DIPLOMA IN ARCHITECTURAL ASSISTANTSHIP
History of Architecture-I

Year/Sem: II / III (ODD-II)

Max. Marks : 75

Time : 3 hr.

PART-A

(5 x 2 = 10 Marks)

Note: (i) Answer any FIVE questions out of which question No.8 is compulsory.
(ii) All questions carry equal marks.

- 1 What is Pylon?
- 2 What do you mean by Ziggurat? Give an example.
- 3 Write about capital in Doric order.
- 4 Name the types of vaults used in Roman architecture.
- 5 What is Pendentive ? Outline its significance.
- 6 Write any two architectural significance of Abbey Aux Hommes, Caen.
- 7 Name the architects who involved in the design of St.Peter's Cathedral, Rome.
- 8 Write about the king chamber in Cheops pyramid.

PART-B

(5 x 3 = 15 Marks)

Note: (i) Answer any FIVE questions out of which question No. 16 is compulsory.
(ii) All questions carry equal marks.

- 9 Give a brief description about tomb architecture of Egypt.
- 10 What are the features of Hanging garden of Babylon?
- 11 Write short notes on aqueduct of classical Rome.
- 12 Bring out any three differences between Doric and Corinthian orders.
- 13 Write briefly about byzantine domes.
- 14 What is Flying buttress?
- 15 Write any three features of Gothic architecture.
- 16 Compare the domes of St.Peter's cathedral and St.Paul's cathedral.

PART-C

(5 x 10 = 50 Marks)

Note: (i) Answer all the questions choosing either sub-division (A) or sub-division (B) of each question.

(ii) All questions carry equal marks.

- 17 A Explain in detail about the Great Amman temple at Karnak with sketch 10
(OR)
B Sketch the elevation of Ziggurat and explain its features. 10
- 18 A Highlight the architectural characters of Greek architecture. 10
(OR)
B Explain the Roman temple Pantheon with sketch. 10
- 19 A Explain the architectural features of Byzantine architecture. 10
(OR)
B Explain the church St.Vitale, Ravenna with its plan. 10
- 20 A Discuss about the architectural characters of Romanesque architecture in Italy. 10
(OR)
B Explain about Notre Dame, Paris with sketch. 10
- 21 A Explain the features of High Renaissance palaces with one example. 10
(OR)
B Explain with neat sketch of St.Paul's cathedral, London. 10

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ARCH

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October/November 2019 Examinations
DIPLOMA IN ARCHITECTURAL ASSISTANTSHIP

Building Materials

Year/Sem: II / III (ODD-II)

Max. Marks : 75

Time : 3 hr.

PART-A

(5 x 2 = 10 Marks)

Note: (i) Answer any FIVE questions out of which question No.8 is compulsory.

(ii) All questions carry equal marks.

- 1 Define the term tile.
- 2 What is meant by 43 grade cement?
- 3 What is meant by workability of concrete?
- 4 What is meant by seasoning of timber?
- 5 Why preservation of timber is necessary?
- 6 What is meant by paint and painting?
- 7 How glasswool is produced?
- 8 How igneous rocks are formed?

PART-B

(5 x 3 = 15 Marks)

Note: (i) Answer any FIVE questions out of which question No. 16 is compulsory.

(ii) All questions carry equal marks.

- 9 Explain the physical classification of rocks.
- 10 What is meant by nominal size of brick? Explain.
- 11 Write short notes on cement mortar.
- 12 How plywood is made? What are its uses?
- 13 Differentiate curtain wall and structural glazing.
- 14 What is meant by Painter's putty?
- 15 Write short notes on Artificial sand.
- 16 Name the differentiate sources of lime.

PART-C

(5 x 10 = 50 Marks)

Note: (i) Answer all the questions choosing either sub-division (A) or sub-division (B) of each question.

(ii) All questions carry equal marks.

- 17 A Enumerate the qualities of a good building stone. 10
(OR)
B What are the characteristics of a good brick? Explain. 10
- 18 A i) What are the precautions to be taken in the storage of cement? 5
ii) What is meant by admixtures? What are its functions? 5
(OR)
B What is meant by curing of concrete? Explain the various methods of curing. 10
- 19 A Enumerate the qualities of a good timber. 10
(OR)
B Write short notes on i) Bamboo 5
ii) Glass blocks 5
- 20 A Explain different types of varnishes. 10
(OR)
B Explain the various defects in painting. 10
- 21 A Explain the following with their properties and uses. 5
i) Thermocol 5
ii) Cork 5
(OR)
B Explain any four types of damp proofing materials. 10
