DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE – RAIGAD -402 103

Supplementary End Semester Examination – Dec - 2019

Branch:-

B. Arch

Sem.:- I

Subject: -

Architectural Design I (AR10100001)

Marks:- 50

Date: -

03/12/2019

Time: - 6 Hrs.

Instructions: -

1. All Questions are compulsory.

2. Do not erase construction lines.

3. Solve all questions on drawing sheets.

FY

Q. No.1

An architect wants to design the office in Pune. Architect's expertise is in the field of architecture and interior projects. The Site has a pleasant climate, proximity to Pune and good connectivity with nature.

Architect wants to create spaces which will help him to be more creative.

Architect has a small office with 2 staff members and a receptionist come office assistant. A area is needed for display of drawings or model.

This office can have open spaces or semi covered areas to explore design. Along with built office space.

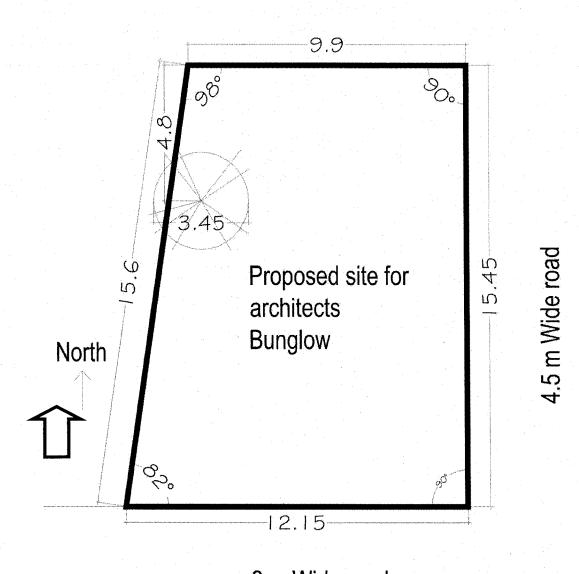
The requirements for Office are as below: (Total 50 Sg.m.)

Sr. no.	Requirement	Area in SQ.M.
1	Waiting and reception area	15
2	Sitting Area - Open	Adequate
3	Main architect office	15
4	Drafting area for 2 people	15
\$ 55	Utility area	05
	Toilet as required	Adequate

Location of Site (Pune): Site is located in Pune near Hinjewadi. The plot details are as follows.

Note: 1. Suitable rendering and neat drawings will carry 10 % marks

2. Tracings required for rough work on design should be submitted along with answer sheets.



6 m Wide road

Mandatory Drawing requirements:

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2) Site plan
 3) Floor plan(s)
 4) Elevation (1 no.)
 1:50

5) Section (1 no.) 1:50

6) 3D sketches (optional) Proportionate

*** End ***

DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE – RAIGAD -402 103

Semester Winter Examination - December - 2019

Fy

Branch: B. Arch

Sub:-Building Materials -I (BA18013T)

Date:- 03/12/2019

Sem.:- I Marks: 60

Time:- 3 Hr.

Instructions to the Students

- 1. Each question carries 12 marks.
- 2. Attempt any five questions of the following.
- 3. Illustrate your answers with neat sketches, diagram etc., wherever necessary.
- 4. If some part or parameter is noticed to be missing, you may appropriately assume it and should mention it clearly

Q.1. Distinguish the Following

(12 Marks)

- a) Igneous rocks and Sedimentary rocks
- b) Exogenous trees and Endogenous trees
- c) Intermittent kiln and continuous kiln
- Q.2. Describe the operation of preparation of clay for the manufacturing of bricks.

 (With the help of necessary sketches)

 (12 Marks)
- Q.3. Explain the process of Manufacturing of ordinary cement by dry process method. (12 Marks)
- Q.4. Give the sketches of the following (any 3)

(12 Marks)

- a) Rotary Kiln
- b) Bull's trench kiln
- c) Rind gall
- d) Plug and feathers
- Q.5. Describe in details any three types of Defects in timber

(12 Marks)

Q.6. Write short notes (any 3)

(12 Marks)

- a) Tunnel Kiln
- b) Crushing test for stone
- c) Field test for cement
- d) Fine Aggregates

**Paper End *

DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE RAIGAD -402 103

Semester Supplementary Winter Examination: Dec-2019

Branch: Bachelor of Architecture

Sem.:- I

Subject: - Architectural Drawing and Graphics-1 (Manual)

Subject Code:- AR10100002

Marks: 50

Date:- 04-12-19

Time:-3 Hr.

Instructions to the Students

1. The First question is compulsory.

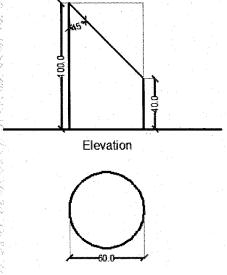
- 2. Solve any TWO out of remaining questions.
- 3. Do not erase the construction lines.
- 4. Solve all questions on drawing sheets.
- 5. Assume suitable data wherever necessary

Q. No. 1 Construct the following regular polygons of side length 60 mm, using any one method in each case -

(5x2=10 Marks)

- i. Septagon
- ii. Pentagon

Q. No. 2 Show the development of surfaces for the truncated cylinder shown in figure below(20 Marks)



Plan

All dimensions are in mm

Truncated cylinder

base equally inclined to V.P.	base 50 mm and axis 70mm long, h It is cut by a section plane, perpendits sectional plan, front elevation, so	licular to V.P., inclined a ectional side elevation ar	it 45° to the H.P.
	ee side elevations of a pentagonal p		
long, naving base on the H.P.	and an edge of the base parallel to	tne v.P.	20 Marks)
	End of Paper		
, s			

DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE – RAIGAD – 402 103

Supplementary Winter Semester Examination: Dec.- 2019

Branch: B. Arch (First Year Architecture)

Semester: II

Subject: Architectural Drawing And Graphics -II (Manual)

Marks: 50

Subject Code: AR10200002

Date: 04/12/2019

Time: 3 Hrs.

Instructions:

- 1. All Questions are compulsory.
- 2. Do not erase construction lines.
- 3. Solve all questions on drawing sheets.
- Q. No. 1 Draw plan and isometric view of a triangle base pyramid of 60mm each side and height 80mm, standing on the H.P. with its axis perpendicular to the H.P. (10 Marks)

OR

Q. No.1 Draw Isometric, Oblique and Axonometric views of a cube having size 5cm x 5cm x 5cm. (10 Marks)

Q. No. 2 Attempt any ONE of the following:

(20 Marks)

Draw exterior two point perspective drawing of cabin having size 3m x 3m x 2.7m height having one window (1.2x1,2)m and a door (0.9x2.1)m at front elevation. The plinth level is 0.45m. 2 steps are provided. Eye level- 1.7m, station point- 10m away from one corner, Picture plane is placed 1m away from the object. Wall- 0.23 m thick brick wall, Rcc slab- 0.15m thick., Lintel level- 2.1m above plinth level, sill level- 0.9m above plinth level. Chajja provided above window and door- 0.6m proj, 0.1m thick.

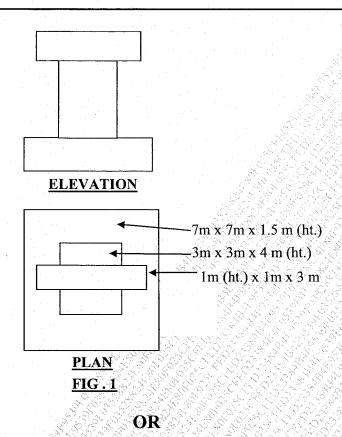
OR

Draw one point perspective sketch of a city-scape .Show Roads, Pathways, Buildings, People, Trees etc., in the drawing. Also, render the view with any of the colour medium.

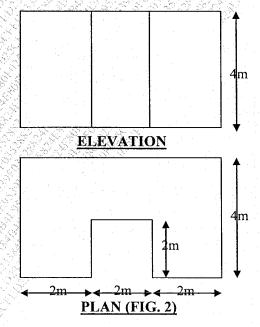
Q. No. 3 Attempt any ONE of the following:

(20 Marks)

a) Cast the sciography of the following objects (Fig. 1), assuming the light rays at 45° both in plan and elevation.



b) Cast the sciography of the following objects (Fig. 2), assuming the light rays at 45° both in plan and elevation.



---- END OF PAPER ----

DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE – RAIGAD -402 103

End Semester Examination – Winter Dec -2019

FY

Branch: B. Arch

Subject:- Theory of Structure-I- (BA18014T)

Date -05/12/2019

Sem.:- I Marks: 60

Time: - 2 Hrs.

Instructions: - 1. All Questions are compulsory

Q. No.1:- Solve all questions.

i. Enlist the types of loads.

ii.Enlist the types of Supports.

iii. Define the Center of Gravity

iv. Define the Moment of Inertia

v. Enlist the types of loads.

vi. what are the units of moment of inertia

vii. What is the unit of C.G.

viii. What is the unit of Point load

ix. What is the unit of dead load

x. What is the unit of U.D.L.

Q. No. 2:- Explain with neat Sketches any Two out of Three

10 Marks

20 Marks

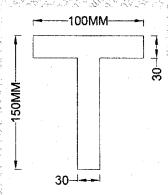
i. Explain the types of supports with neat sketch.

ii. Explain the load distribution with neat sketch.

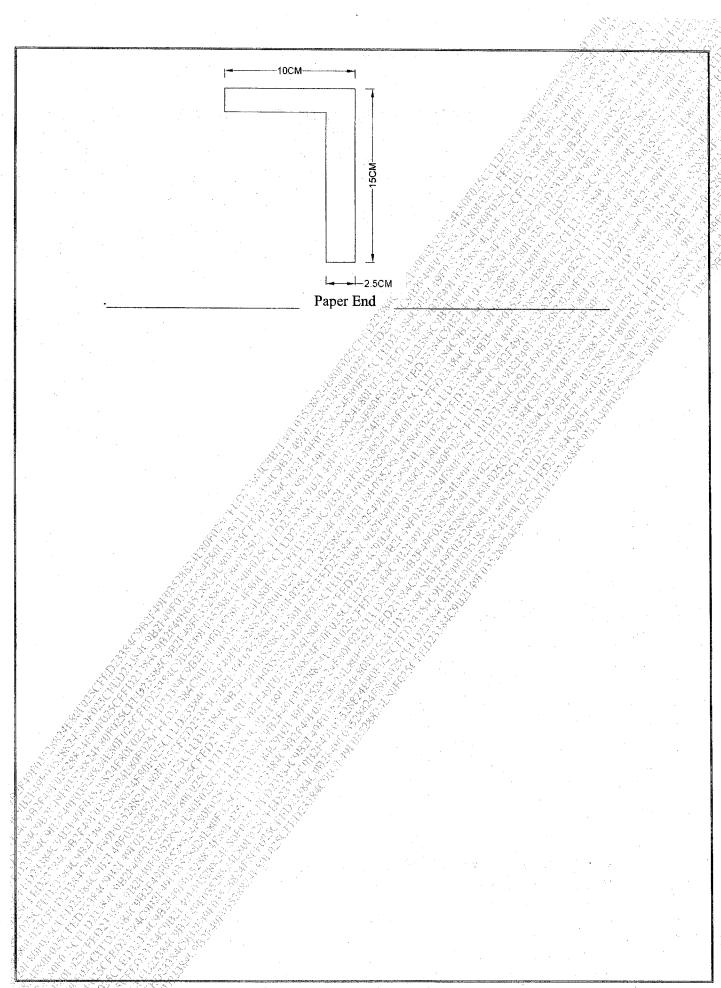
iii. Explain the types of loads with neat sketch.

Q. No. 3:- Find the C.G. of the following fig

15 Marks



Q.No. 4:- :- Find the moment of inertia about centroidal X-X & Y-Y axis of an inverted L-section 15 Marks



DR. BABASAHEB AMBEDKAR TECHNOLOGICAL

UNIVERSITY, LONERE – RAIGAD – 402 103

Winter Semester Examination – Dec – 2019

Branch: B. Arch (First Year)

Sem.: I

Subject: Building Construction Technology & Materials-I Marks: 50

Subject Code: AR10100003

Date: 05/12/2019

Time: 3 Hrs

Instructions:

1. All Questions are compulsory.

2. Do not erase construction lines

Q. No. 1 Solve any TWO of the following:

(10 Marks)

- **A)** What are the harmful ingredients in brick earth?
- **B)** Describe Classification of Lime.
- **C)** Explain important properties of cement.

OR

Q. No. 1 Explain in detail the Preparation of clay in the process of manufacturing (10 Marks) of brick.

Q. No. 2 Attempt any ONE of the following:

(20 Marks)

- A) Draw proportionate sketches of ANY FOUR of the following
 - 1) Queen closer (Half)
 - 2) Bevelled closer
 - 3) Three Quarter Bat
 - 4) Mitred closer
 - 5) King closer
- B) Draw neat labeled sketches of Plan, elevation and isometric view with three successive courses of 1 and ½ bk thk wall in Double Flemish bond.

Q. No. 3 Attempt any ONE of the following:

(20 Marks)

A) Draw a sketch plan of two successive courses of one and half bk. Thk. Main wall and One bk. Thk. Cross wall in Cross junction in English Bond.

B)	Draw a o	detail label	ed section ar	nd plan of L	oad bearing	g foundation.	
	Thickne	ss of bk. w	all is 350-m	m.and depth	of foundat	tion 1.45 m belo	w the ground.
==	======			======			
				END OF I	PAPER		

DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE - RAIGAD - 402 103 Winter Semester Examination – December – 2019 Semester: II Branch: B. Arch. (First year Architecture) Subject: Building Construction Technology & Materials-II (AR1020003) Marks: 50 Time: 3 Hrs. Date: 05/12 /2019 **Instructions:** 1] All Questions are compulsory 2] Figures / structures to the right indicate full marks. 3] Assume suitable data, if necessary. 4] Neat diagrams must be drawn wherever necessary. Q.No 1 Solve any TWO of the following. (10)a) Describe any two types of glass with properties. b) Explain Aluminum as a building material with its advantages. c) What are ingredients of different types of concrete? d) What is water cement ratio? (10)Q.No 2. Solve any TWO of the Following. a) Explain the mixing process of Concrete. b) What are the advantages of using steel in construction? c) Explain the methods of curing of concrete. d) Write short note on mild steel. Q.No.3Attempt any **TWO** of the following. (15)a) Differentiate between PVC and u-PVC b) What is initial and final strength of Concrete? c) Write down any four materials used for wall cladding. Q.No.4 Draw neat sketches of any ONE of the following. (15)a) Draw neat sketches of a Drywall using metal stud and gypsum sheets. b) Draw neat section with proper nomenclatures of external load bearing one and half brick thk wall from Foundation to Parapet wall. Paper End



DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE - RAIGAD -402 103

End Semester Winter Examination - DEC. - 2019

Branch: B.Arch (First Year Architecture)

Semester: I

Subject: ENVIRONMENTAL SCIENCE I (AR10100004)

Marks: 60

Date: 06/12/2019

Time: - 3 Hours

Instructions: - 1. ALL QUESTIONS are compulsory

2. Draw proper sketches wherever necessary.

Q. No.1:- Answer the following

 $(1 \times 15M = 15 Marks)$

Explain the characteristics of hot and dry climate, cold and cloudy and composite climate.

Q. No. 2:- Answer the following any THREE

 $(3 \times 5M = 15 \text{ Marks}).$

- 1. Define solar altitude angle and solar azimuth angle which proper sketches.
- 2. Explain STACK VENTILATION with proper sketches.
- 3. Explain with proper sketches URBAN HEAT ISLAND EFFECT.
- 4. Write a note on thermal insulation.
- Q. No. 3:- Answer the following in detail any $TWO(2 \times 10M = 20 \text{ Marks})$.
 - 1. What do you understand by ventilation and write about importance of ventilation.
 - 2. How to read a BIO CLIMATIC chart, explain it with sketches.
 - 3. Write a note on lighting with the help of following points.
 - a. Daylight
 - b. Sources of daylight.
 - c. Need of Daylight.
 - d. Advantages of Daylight.

Q. No. 3:- Answer the following in detail any TWO

 $(2 \times 10M = 20 \text{ Marks}).$

- 1. Explain any three factors affecting airflow through the building.
- What do you understand by solar shading and explain with sketches any two types of solar shading devices.
- 3. Explain with proper sketch EARTH SUN relationship and the distribution of radiation through atmosphere.
- Q. No.4:- Write Short Notes on (Any 5)

 $(5 \times 2M = 10 \text{ Marks})$

- 1. List of Koppen's classification of Climate.
- 2. Name any four elements of climate.
- 3. Define Horizontal Shadow Angle
- 4. Enlist FOUR climatic variables that are considered in plotting a BIO CLIMATIC CHART.
- 5. Explain in short "CONVECTION"
- 6. Explain in short "TROPOSPHERE"
- 7. State the formula for calculating conduction heat flow rate (Qc)



DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE - RAIGAD -402 103 End Semester Winter Examination - Dec. - 2019

Branch: B.Arch. (First Year Architecture)

Subject: Environmental Science-II (AR10020004)

Date: 06/12/2019

Sem.:- II

Marks: 60

Time: 3 Hr.

Instructions to the Students

- 1. Question no.1 is compulsory.
- 2. Attempt any Four questions of the following.
- 3. Illustrate your answers with neat sketches, diagram etc., wherever necessary.
- 4. If some part or parameter is noticed to be missing, you may appropriately assume it and should mention it clearly.

Q.1. MCQ / Fill in the blanks / Match the columns

- A) The complex network of interconnected food change is called ----- (1 M)
 - i) Trophic level
 - ii) Food web
 - iii)Ecological pyramid
 - iv) Ecology chain
- B) The destruction of habitat of plants and animals is called----- (1 M)
 - i) Habitat loss
 - ii) Endemism
 - iii) Endangered species
 - iv) Flood
- C) The following factor(s) is (are) responsible for degradation of soil----- (1 M)
 - i) Chemical fertilizers
 - ii) Landslides
 - iii) Floods
 - iv) All of the above
- D) Leader of "Narmada Bachavo Andolan" (1 M)
 - i) Vandana Siva
 - ii) Medha Patkar
 - iii) Menaka Gandhi
 - iv) Moyilamma

E) Which of the following is a biodiversity hotsp	ot in India?	(1 M)
i) Nandadevi		
ii)Eastern Ghats		
iii) Aravalli		
iv) Western Ghats		
F) Match the columns		(5 M)
Column I	Column II	
i) Ground water	a) Solid form of water	
ii) Well	b) Wastage of water	
iii) Snow	c) Water Management	
iv) Drip Irrigation	d) Small water	9,9,5
v) Leaking Taps	e) Water Table	
G) Define the following (any five)		(10 M)
i) Habitat and Niche		
ii) Eco-region		
iii) Bio-swales		
iv) Environmental movement		
v) Ecological Planting		
vi) Ecosystem		
vii) Water conservation		
Q.2. Write short note (any two)		(10 M)
i) Chipko Movement		
ii) Contour Bund and well for rain water h	arvesting	
iii) Grey water		
iv) Name any two environment activist and	their contribution	
Q.3. Answer the following (any two)		(10 M)
i) Describe the value of Bio-diversity		
ii) What is environment? Explain various o	components of environment.	
iii) Explain about the climate change and i	ts causes.	
Q.4. Attempt any one of the following.		(10 M)
i) Explain the process of roof top rain water	er harvesting with the help of	
suitable diagram.		
ii) Explain the food web and the food chai	n with appropriate schematic	
diagram		
Q.5. Explain Global warming and its prevent	ve measures in details.	(10 M)
Q.6. Explain the Bio-geographic zones / region	ns of India in detail.	(10 M)
Q.7. Write an essay on the theme:- Analyze the degradation on traditional communities. Paper		(10 M)

DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE - RAIGAD -402 103 Winter Semester Examination - Dec. 2019

Branch: Architecture Sem.:- I Subject:- Culture and Built Form-I (BA18017T) Marks: 60 Time: - 2 Hrs. Date: - 07/12/2019 **Instructions to the Students** 1. Each question carries 12 marks. 2. Answer any 5 out of 6 questions. 3. Illustrate your answers with neat sketches, diagram etc., wherever necessary. 4. If some part or parameter is noticed to be missing, you may appropriately assume it and should mention it clearly. Q.1. Answer of the following (any one) (12Marks) A) Describe with appropriate sketches any Neolithic Settlement. <u>OR</u> B) Outline the Architectural Character of Indus valley civilization with examples. Q.2. Answer of the following (12Marks) A) Explain the tomb architecture of Egypt. OR B) What are the factors affecting Sumerian architecture? Explain any one example of Sumerian architecture. Q.3. Write short notes on: (Any 3) (12 Marks) a) Olmec Settlements. b) Yellow River valley civilization c) Impact of Agricultural revolution. d) Why Egypt was called "Gift of Nile"? Q.4. A) Fill in the Blanks: (12 Marks) 1. This became the landmark in every city of Mesopotamian civilization. A. White temple. B. Palace. C. Ziggurat. D. Oval temple. 2. The Queen's chamber is located in_____ of the Great Pyramid. A. Top.

B. Bottom.

3.		ir Political range into 3 Units. First un	it was known
	A. Vis. B. Jana. C. Grama. D. Kingdom.		
4.	Construction of pyramids too A. Old kingdom B. Middle kingdom C. New kingdom D. All of the above		
5.	Which one of the below were A. Lotus B. Acanthus C. Cyprus D. Ephesus	the inspiration for Egyptian column (order.
6.	The Nile River flows through A. Upper Egypt and B. Eastern Egypt a C. Mesopotamia. D. Nubia and Cairo	nd Western Egypt.	Ö
B) I. II. III. IV. V. VI.	Match the following Code of Hammurabi Ishtar gate Sumerian cities Cuneiform Persian Hieroglyphs	Palace of Persepolis Collection of laws & edicts Egyptians writing Ur, Uruk, Warka Polychrome bricks Sumerians writing	(6 Marks)
Q.5	b. Pylons.	ctural elements of Vedic village.	(12 Marks)
a) V b) E	N 15 1 V 2 2 V 3 1 1 2 1 1 2 1 1 2 1 1 2 2 1 2 2 1 2 2 1 2 2 1 2 2 1 2	ric dwellings.	(12 Marks

DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE, RAIGAD -402 103

End Semester Winter Examination - Dec. - 2019

Branch: B.Arch (F.Y)	Sem.:-1
Subject : History of Architecture 1 (AR10100005)	Marks: 60
Date:- 07-12-2019	Time:-3Hr.
Note: Question no.1 and 2 are compulsory. Solve any 3 questions.	ons out of the
Read the question paper carefully before attempting.	
Q.1 Multiple choice questions:	(10 marks)
1 is a tangible form of culture.	
(a. Wada b. Mythology c. Folk dance d. language)	
2. Which of the following terminologies means Old Stone Age	
(a. Mesolithic b. Paleolithic c. Neolithic d. Paleontology)	
3. The Ziggurat of Ur at Namu was built by the	
(a. Assyrians b. Persians c. Egyptians d. Sumerians)	
4. The Nile River flows through the lands inhabited by the ancient	
(a. Egyptian b. Persians c. Roman d. Assaryan)	
5. The pyramid of Zoser at Saqqra is a Type of	
(a. Bent pyramid b. Step pyramid c. Ramped pyramid d. True	pyramid)
6. The city of Mohenjo-Daro is known for which of the following bu	ildings
(a.Amphitheatre. b. Bridges c. The great bath d. Cul-de-sac). 1
7. the Upanishads are a form of	

(a. Vedic Hut b. Cow gate c. Vedic utensils d. Vedic Literatur	e)
8 was the most common building material used in the duri	ng the Vedic period
(a. Granite Blocks b. Wood c. Lime stone d. Sand stone)	
9. The Mahabharata was written by	
(a. Aryabhata b. Valmiki c. Arjun d. Kalidas)	
10were the earliest known major civilization in Mesoamer	ica
(a. Parthian b. Latin c. Andean d. Olmec)	
Q.2 Write Short notes for the following Questions with sketches	(20 marks)
a. Paleolithic Age (5 marks)	
b. Doric column of Greek origin (5 marks)	
c. Mastabas of Egypt (5 marks)	
d. Grid iron pattern of town planning (5 marks)	
Q.3 Describe with neat sketches the palace of Sargon at Khorsabad.	(10 marks)
Q.4 Describe with neat sketches the design and characteristics of a typical V	edic Village
	(10 marks)
Q.5. Describe with sketches the Greek temple Parthenon in detail.	(10 marks)
Q.6. Describe with sketches Roman Coloseum with special emphasis on Col purpose of the building.	umn orders and (10 marks)
Q.7. Explain the concept of Mayan ziggurats as religious buildings with exam	mples. (10 marks)
Q.8. write about the Babylonian city of Ur with its plan sketched.	(10 marks)
Paper End	

DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE – RAIGAD -402 103

End Semester Winter Examination – DEC. - 2019

Branch: B.Arch (First Year Archite Subject:- History of Architecture-I Date: 07/12/2019	그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그	Semester -11 Marks: 60 Time: - 3 Hr.
Instructions: - 1. The First que	stion is compulsory	
2. Answer any F	OUR out of the remaining.	£γ
	ng statements are Ture or False or fill in	the blanks where ever
necessary:		20 Marks
1. The Stupa at Sanchi is a fine	e example ofstyle of archite	cture
2. Buddhist prayer halls are ca		
	in temple architecture is seen at	
	er of The Slave Dynasty of the Delhi Sult	
5. Chenghis Khan was a ruler	[2,13] (2,14,2,3,3) (2,10,10,10,10,10,10,2)	x
	omplex located in Cambodia is at	•
그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그	capital city of the Ming Dynasty of anci	
8. The Alhambra was built by	선물 전문 사람들은 사람들은 점점 점점을 지어 되었다. 선생님들은 사람들은 사람들은 사람들은 사람들이 되었다.	
9. Gothic architecture is most	famous for	
	e world where the Mayan civilization de	eveloped.
Q. No. 2:- Describe the characteris	tics features and origins of Buddhist Roo	ck cut architecture. 10 Marks
Q. No.3:- Write a note on Nagara S	Style, with the help of neat sketches.	
		10 Marks
	al style of the Slave Dynasty rulers with	neat sketches of one
Example.		10 Marks

		10 Marks
Q. No. 6:- Describe the characteristics features of R	omanesque architectur	e with suitable examples
and sketches of one example.		10 Marks
Q. No. 7:- Describe the characteristics features of G		
sketches of one example.	ounc aremeeture wan	
Paper End		10 Mark

DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, End Semester Examination - Dec - 2019 **LONERE – RAIGAD -402 103**

Subject:- Theory of Structure-1 (AR10200006S) Date:- 10/12/2019	Marks: 60 Time:- 3 Hr.

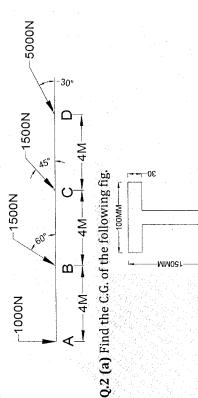
Instructions to the Students

- Each question carries 12 marks.
 Attempt any five questions of the following.
 Illustrate your answers with neat sketches, diagram etc., wherever necessary.
 If some part or parameter is noticed to be missing, you may appropriately assume it and should mention it clearly

(04M)Q.1 (a) Define the following (any two) ii. Concurrent forces i. Coplanar forces

(b) Find the magnitude & direction of resultant for given force system. (08M)

iii. Colliner forces



(08M)

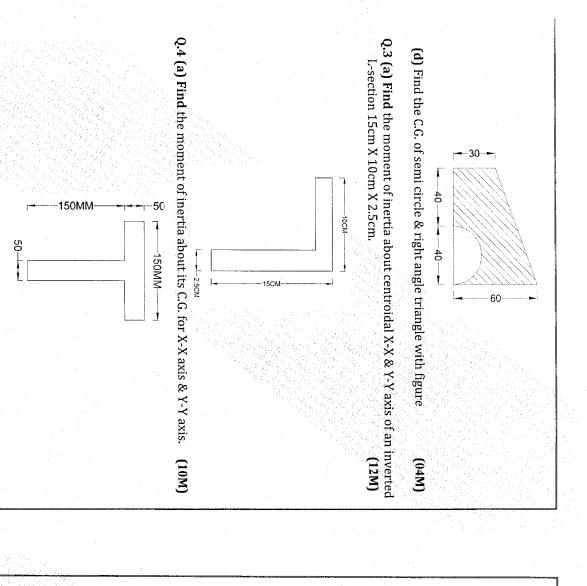
(b) Find the C.G. of semi circle & right angle triangle with figure

Q.2 (c) Find the C.G. of the following fig.

(04M)

(08M)

EC2FA3D0100FD3760E4B79796ABA48AB



(d) Define shear force & bending moment

(02M)

-1.50M

0.5M+

 $\overline{\omega}$

Paper End

Q.6 (c) Draw S.F.D. and B.M.D. for cantilever beam 1.5 m long loaded as shown in fig.

-2KN

_1.5KN

≤

·2.5M-

.1 M-

point load as shown in fig.

(12M)

72KZ

7 4 K N

Q.5 (a) Draw S.F.D. and B.M.D. for simply supported beam 2 m long carrying EC2FA3D0100FD3760E4B79796ABA48AB

(e) What are the types of supports (f) What are the types of loads.

(01M) (01M)

EC2FA3D0100FD3760E4B79796ABA48AB