B.ARCHITECTURE (SEMESTER–VI) (CBCS) EXAMINATION

URBAN PLANNING (AR6-04)

QUESTION BANK

70 MARKS

Q.2. WRITE SHORT NOTES ON (5 MARKS EACH)

1. Requirements of ideal town
2. Garden cities
3. Satellite Town
4. Land use Panning
5. Le-Corbusier
6. Ebenezer Howard
7. Patric Geddes
8. C.A.Doxiadis
9. Housing problems in India
10. Causes of slum
11. Ribbon development
12. Development plans
13. Importance of Zoning
14. Zoning
15. Height zoning
16. Light plane
17. Floor space index
18. Density zoning
19. Industrial zone
20. Recreational Zone
21. Residential Zone
22. Traffic Management
23. Traffic islands

24. Traffic signals
25. Radial street pattern
26. Rectangular sheet pattern
27. Concentric sheet system
28. Grade separations
29. Diamond crossing
30. Clover leaf junction

Q.3. ANSWER THE FOLLOWING (12 MARKS EACH)

1. What are the major urban planning features of Ancient Urban planning in India?
2. What is the impact of industrial revolution on urban planning?
3. Discuss the evolution of planning through ages on globe scale.
4. Write a critical note on Indus valley civilization
5. What is meant by term Urban planning and what are its objectives?
6. What are the forms of planning?
7. Mention the six stages in town development are suggested by Lewis Munford
8. What is ribbon development? What are its disadvantages?
9. Mention the features of a satellite town
10. Describe the growth of towns according to direction
11. What are the advantages and disadvantages of horizontal growth?
12. What are the advantages and disadvantages of vertical growth?
13. Describe in detail the urban planning concepts of the following thinkers:
    a. Ebenezer Howard
    b. Le Corbusier
    c. Patrick Geddes
    d. Doxiadies
14. Explain the Urban planning ideas of Radburn layout with neat sketches.
15. Define Garden cities and explain in detail how Ebenezer Howard conceived it

16. Write a note on concept of Neighborhood Planning
17. Compare garden cities with satellite towns
18. Explain in brief the urban planning idea of Chandigarh.
19. Explain in brief the urban planning idea of Gandhinagar
20. Write a note on land use planning and its importance.
21. What is meant by the term zoning?
22. What are objects of zoning?
23. Mention main principle of zoning? And write note on advantages of zoning?
24. Explain the importance of zoning with illustration
25. Discuss in detail the uses of zoning
26. What is density zoning? What are its advantages?
27. Differentiate between density zoning and height zoning
28. Differentiate between residential zone and commercial zone
29. Differentiate between profit making and nonprofit making uses of land
30. Mention some of the evils of existing unplanned towns
31. Write a note on causes of slum and its effect on town life and how their condition can be improved.
32. What is importance of byelaws in urban Planning, why is it necessary?
33. What are the importance and objects of urban roads
34. Mention the requirements of good city roads
35. How are the urban roads classified
36. Discuss the various categories of street system
37. What are the main objectives of traffic management?
38. What is traffic control? What are its objectives? How is it achieved?
39. What are the measures to control traffic at junctions
40. Write note on various types of traffic junction with help of sketches

PunyaShloak Ahilyadevi Holkar Solapur University Solapur

QUESTION BANK
As per CBCS Pattern – New

Course Name: B. Architecture B.ARCH , Semester : II

SUBJECT TITLE : HISTORY OF ARCHITECTURE - I

Q.Write short notes on the following – (5 marks each)

1. Terra Amata
2. Stone Age Tools
3. Discovery Of Wheel / Discovery of Fire
4. Catal Huyuk
5. Dolmen And Cromlech
6. Vedic Huts
7. Great Bath At Mohenjo-Daro
8. Vedic Village
9. Grid-Iron Pattern
10. Granary in Mohenjodaro
11. Chandra Gupta Mauryas
12. Stupa
13. Ellora Caves
14. Karli Caves
15. Sthambhas
16. Viharas
17. Mastabas
18. Sphinx
19. Egyptian Column Capital –
20. Hypostyle Hall
21. Pylon In Egyptian Temple
22. Kings Chamber
23. Grand Gallery
24. Zigguarat At Ur-Nammu
25. Lion Gate
26. Palace At Tyryns
27. City Of Babylon
28. Hanging Garden
29. Istar Gate
30. Apadana Hall

Q.Answer the following in detail – (12 marks each)

1. Explain megalithic construction undertaken by prehistoric people with the help of suitable example.
2. Explain the settlement of Catal Huyuk in detail?
3. Sketch and explain Passage Grave And Gallery Grave ?
4. Write detailed note on Prehistoric Shelters ?
5. Discuss in brief about Neolithic age ?
6. Sketch and explain pre historic hut – Terra Amata
7. Explain the characteristic features of Stone age ?
8. Discuss the importance of rivers in early civilization with suitable examples.
9. Explain the planning and construction principles of Indus valley towns.
10. What is mean by citadel? Sketch and explain following buildings located on Citadel ?
11. Write detailed note on garden city of Patliputra ?
12. Sketch and explain early Vedic Settlements ?
13. What is mean by Chaityas? Sketch and explain Chaitya Hall At Karle ?
14. Sketch and explain different parts of Sanchi Stupa ?
15. Sketch and explain – A. Cow gate B. Buddhist Torana
16. Explain the architectural characteristics features of Egyptian Architecture ?
17. Explain with neat sketch Pyramid Of Cheops .
18. Explain with neat sketches Egyptian Tomb Architecture ?
19. Explain in detail different parts of Egyptian temple of Khons At Karnak ?
20. Sketch and explain – A. Sphinx B. Obelisk
21. With the help of neat sketch, describe-the palace of Sargon-II at Khorshabad
22. What are the characteristic features of Babylonian civilization ? Sketch and explain city of Babylon?
23. With the help of neat plan, explain the features of Palace Of Persepolis
24. Explain with neat sketch- palace of king Minos at Knossos.
25. Discuss why the Mesopotamian civilization is considered as cradle of all civilization?

QUESTION BANK

YEAR &SEM- B.ARCH –I YEAR, SEM-II

PATTERN- (NEW CBCS PATTERN)

SUBJECT - BUILDING CONSTRUCTION AND MATERIAL -II

ARCHES and LINTELS

1.Drafting question -

1. Draw to appropriate scale an arch, label its parts and define any 5 minimum.

2. Draw to appropriate scale arches using different material like stone, wood, brick, concrete, steel

3. Draw to appropriate scale lintels using different materials like stone, wood, brick, concrete, steel

4. Draw different types of arches based on their number of centres.

2.Short notes

1. Define the following components of an arch

intrados, soffit, extrados, voussoirs, skewback, springer, crown, key, abutment, piers, springing point, springing line, span, rise, centre, ring, Spandril, haunch, arcade, impost.

2. Differentiate between arches and lintel
3. Types of arches based on centre
4. Types of arches based on material used for construction
5. Types of lintels based on material used for construction

DOORS & WINDOWS,

1.Drafting question -

1. Draw plan, elevation section and minimum 2 details of ledged and battened door

2. Draw plan, elevation section and minimum 2 details of ledged battened and braced door

3. Daw plan, elevation section and minimum 2 details of ledged framed and braced door

4. Draw plan, elevation section and minimum 2 details of panelled door

5. Draw plan, elevation section and minimum 2 details of panelled window

2.Short notes

1. Define the following components of an door and window
architrave, holdfast, louver, mullion, transom, horn, putty, shutter, style, panel, frame, head, sill, top, bottom and lock rail, intermediate rails holdfast, horn, sash, jamb, reveal, rebate.
2. Pivoted wooden door
3. Hinged wooden door
4. Joints in carpentry
5. Differentiate between Lapped joint and Butt joint
6. Differentiate between Rebated joint and fillet joint

7. Differentiate between Tongue joint and groove joint
8. Differentiate between Splayed joint and dowelled joint

STAIRCASE

1.Drafting question -

1 Draw to appropriate scale a section of staircase, label its parts and define any 5 minimum.

2. Draw to appropriate scale different types of staircase as per shape.

2.Short notes

1. Define the following components of a staircase

Baluster, balustrade, flight, going, handrail, headroom, landing, Newel post, nosing, pitch, rise, riser, run, scotia, soffit, step and its types, String, tread, waist,

2. Types of stair

3. With a neat sketch show the Different materials used for stairs in section.

ROOF

1.Drafting question -

1. Draw to appropriate scale a sloping roof, label its parts and define any 5 minimum.

2.Draw different types of sloping roof as per span

2.Short notes

1. Different types of roof
2. Pitched roof and its types
3. Define the following components of an sloping roof
   barge boards, battens, cleats, dragon beam, eaves, gable, hip, pitch, purlins, rafters, and its types Ridge, span, truss, valley, wall plates
4. Lean to roof
5. Curved roof
6. Differentiate between common rafter and jack rafter
7. Differentiate between hip rafter and principal rafter
8. Couple roof
9. Couple close roof

Building material

Sand

Write in brief

1.Mention the properties of good sand

2. State the functions of sand in mortar

3.what are the natural sources of sand?

4. Briefly explain the tests carried out to ascertain the properties of sand.

Write short notes: -

1. natural sources of sand

2.Bulking of sand

3.Classification of sand

4.Differentiate between fine sand and coarse sand.

5. Differentiate between river sand and Sea sand.

Lime

Write in brief

1.explain the classification of limes Briefly mention their properties.

2. explain the classification of limes Briefly mention their uses.

3.compare fat lime and hydraulic lime

4.how is fat lime manufactured

5.how is natural hydraulic lime manufactured

Write short notes: -

1.slaking of burnt lime

2.Tests for limestone

3.Uses of lime

4. Differentiate between fat lime and hydraulic lime.

5.calcination of lime stones

Lime mortar

Write in brief

1.How is lime mortar prepared

2.Define mortar and explain the properties of good mortar

3. Define mortar and explain the uses of good mortar

Write short notes: -

1. uses of mortar

2.tests for mortar

3.properties of good mortar

4. function of sand in mortar.

5. selection of lime mortar

Question bank

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QUESTION BANK

B.Arch, IVth Year, Sem-VIII

PROFESSIONAL PRACTICE -II. (CBCS PATTERN)

I. Write short notes on:- (5 marks each)

ARBITRATION

1. Arbitral tribunal.
2. Arbitral agreement.
3. Arbitral award.
4. Arbitrator
5. Arbitration
6. Duties and Responsibilities of an Arbitrator

ARCHITECTURAL COMPETITIONS

1. Limited competition
2. Open competition.
3. Advantages of architectural competition.
4. Types and nature of competitions
5. Assessor and their duties
6. Single stage competition

BUILDING BYLAWS

1. National building code.
2. Importance of bye –laws
3. Dilapidations, Waste, Repairs
4. Laws related to employment of ladies
5. Laws related to welfare of health of labour.

LAND ACQUISATION

1. Principles of land acquisition act .
2. Steps for land Acquisition.
3. Claim of value
4. need for land acquisition
5. objection and claim
6. Shortcomings of Land Acquisition Act

EASEMENTS

1. Continuous and discontinuous easement
2. Dominant and Servient heritage.
3. Natural and customary rights
4. Characteristics of easements
5. Easement

I. Answer the following

ARBITRATION

1. What is Arbitration? Explain the advantages and disadvantages of settling the disputes by this method.
2. Differentiate between Mediation, conciliation and arbitration.
3. Explain the advantages and disadvantages of solving the disputes by arbitration.
4. Write in detail the duties of the Arbitral tribunal.
5. Explain arbitrator their eligibility and duties.

ARCHITECTURAL COMPETITIONS

1. Explain the role of Council Of Architecture (COA) In Architectural Competitions
2. Explain in detail the stages of competition
3. Write in brief the duties and qualifications of an assessor in architectural competitions
4. Explain the objectives and procedures of conducting an architectural competition.
5. Explain various types and stages of architectural competition

BUILDING BYLAWS

1. Write in brief, municipal bye laws regulated for a residential building in Solapur.
2. Write the safety measures undertaken by the contractor for the labors in the construction industry
3.Mention the factors considered for employment of women and children under factory act
4. Explain the factors considered regarding the safety of the labors under factory act.
5. Write in brief about dilapidation, repairs, waste, fixture's.

LAND ACQUISATION

1. Write in brief the procedure involved for the acquisition of land under the act.
2. Write in brief the necessity of land acquisition and mention the process taken in acquisition under land acquisition act,1894.
3. What is meant by acquisition? Write the principles of land acquisition act, Mention the steps involved in the process of acquisition.
4. Write in detail about- objection and confirmation, claim and value.
5. Explain the necessity of land acquisition and when can it be terminated.

EASEMENTS

1. Explain the term Easement and its characteristics.
2. Explain types of Easement, Natural and customary rights
3. Explain the different methods to acquire easement.
4. Explain easement, dominant and Servient heritage.
5. Define easement, modes of acquiring, characteristics

QUESTION BANK

B.Arch, IVth Year, Sem-VIII

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PunyaShloak Ahilyadevi Holkar Solapur University Solapur

QUESTION BANK

Course Name: B. Architecture **B.ARCH - Semester : VI**

As per CBCS Pattern

SUBJECT TITLE : BUILDING SERVICES -IV

Q.no. 1 – write short notes on the following ? 5 Marks Each

1. Various types of waste - industrial / commercial / domestic / Agricultural/ Muncipal solid waste
2. Solid waste disposal ? Landfill /incineration / waste compaction / Biogas generation / composting / vermicomposting
3. Biochemical oxygen demand
4. Aerobic process / anaerobic process of sewage treatment
5. Necessity to treat domestic sewage
6. Screening in STP
7. Grit chamber
8. Skimming tank
9. Sedimentation of sewage
10. Sludge digestion tank
11. Trickling filter
12. Activated sludge process
13. Oxidation Pond
14. Sewerage System.
15. Conservancy System
16. Water Carriage System
17. Sewage Disposal
18. Natural Method Of Sewage Disposal - By Dilution / Disposal By Land Treatment
19 Septic Tank / Soak Pit
20 . Imhoff Tank
21. Types Of Privys – Bore Hole Privy / Aqua Privy /Tub Privy / Trench Privy
22. Sulabha Shauchalaya / Two Pit Latrins
23. Define Waste Water & Effluent
24. Garbage And Rubbish
25 . Incinerator
26 . 3R Reduce , Recycle , Reuse
27. Hazardous Waste
28. Bio Gas Plant
29. Refuse Chute
30. Industrial Waste

Q.No. 2- Answer The Following In Detail ? 12 Marks Each

1. What are the various types of waste generated ? / how are the sources of waste are classified ? (industrial / commercial / domestic / Agricultural/ Muncipal solid waste)
2. Explain common methods of solid waste disposal ? (Landfill /incineration / waste compaction / Biogas generation / composting / vermicomposting)
3. Discuss the broad classification of sewage treatment process ?
4. What is mean by treatment of sewage ? state its objectives ?
5. What do you understand by primary and secondary methods of sewage treatment .
6. Draw and explain layout of a typical sewage treatment plant?
7. Explain systems of sewerage system – Separate system / Combined system / Partially separate system
8. Explain following methods of sewage collection – Conservancy System / Water carriage system
9. Explain natural methods of sewage disposal
10. What is mean by sewage disposal ? explain the artificial methods of sewage disposal ?
11. Explain Primary method of disposal of sewage ?
12. Explain Secondary method of disposal of sewage ?
13. Sketch and explain Septic tank in detail ?
14. Sketch and explain Imhoff tank ?
15. What is mean by Human Excreta ? Discuss the various methods of disposal of excreta unsewered areas.
16. What are the various aspects of rural sanitation?
17. What are the different types of Privy? Explain any one of the same in detal with neat sketch.
18. Sketch and write detailed note on Sulabha Shouchalaya ?
19. How waste water is generated ? List the steps of typical wastewater treatment?
20. What are the sources of solid waste ?explain the method of collection of solid waste ?
21. Explain following terms responsible for waste management - Reduce, , Recycle, Reuse
22. What is incineration method of solid waste disposal? Is it the method of disposal ? Draw flow chart ?
24. What is refuse chute ? where is it used Explain with the help of neat sketch?

PunyaShloak Ahilyadevi Holkar Solapur University Solapur

QUESTION BANK

Course Name: B. Architecture B.ARCH , Semester : IV

SUBJECT TITLE : BUILDING SERVICES -II

Q.Write short notes on the following – (5 marks each)

1. Uses of water
2. Explain importance and necessity of water supply.
3. Artesian Spring
4. Infiltration well
5. River Intake / canal intake /
6. Conveyance of Water
8. Steel pipe / cast iron pipe
9. GI pipes / plastic pipe
10. Pipe fittings
11. Wholesome water
12. Quality of Water
13. Demand of water / Factors Affecting Water Demand
14. Per capita consumption of water / Per Capita Water Demand
15. Impurities in Water
16. Water Disinfection / Hardness of water / water softening
17. Gravity system / Combined Gravity and Pumping System /Pumping system
18. Circular method / Grid iron method / Radial method / Dead end method
19. Continuous and Intermittent system
20. Stand pipes / Sump well/ underground water storage tank / Elevated storage reservoir / surface reservoir
21. Displacement pump / reciprocating pump
22. Communication pipe and consumer's pipe / ferrule
23 . Valves and Its Purpose
24. Water meter / Fire Hydrants / Shower rose
25. Solar Water Heater / Boilers / Pressure boilers

Q. Answer the following in detail – (12 marks each)

1. What are the uses of water ? Explain importance and necessity of water supply schemes / project ?

2. Sources of Water: Surface water Sources , Ground water Sources, Rainfall

3.Differentiate between underground sources and surface sources of water?

4. what are the surface & underground sources of water ? discuss with respect to quantity and quality of water .

5. Define intake. State different types of intake and explain any one of them with neat sketch.

6. State factors governing the location of an intake structure? Enlist the types of intake?
7. Sketch the various types of pipe fittings used in water supply?

8. what are the Requirements of good pipe material used to convey water ? Enlist the different materials used for it ?
9. State the advantages and disadvantages of plastic pipes used for water supply ?

10 . State different types of pipe joints and explain any two of them with neat sketch.

11. What are the types of pipe fittings used in internal plumbing installations.

12. Write in detail procedure of laying and joining of pipes.

13 . State and explain various types of impurities present in water.

14. What do you mean by water demand? State various types of water demand

15. What is wholesome water ? What are the requirements of wholesome water? What is the per capita demand for various uses ?

16. State factors affecting rate of demand. Explain any one in detail.

17. Draw the lay-out of water treatment plant. Write the purpose of each component?

18. What are the requirements of good distribution system? Sketch and describe any one among the following Gravity system / Pumping system / Dual system?

19. Explain with neat sketch any two among the following -Radial system / grid iron system/circular system / dead end system

20. State the advantages and disadvantages of the following methods of water supply ? a. continuous method of water supply b. Intermittent method of water supply

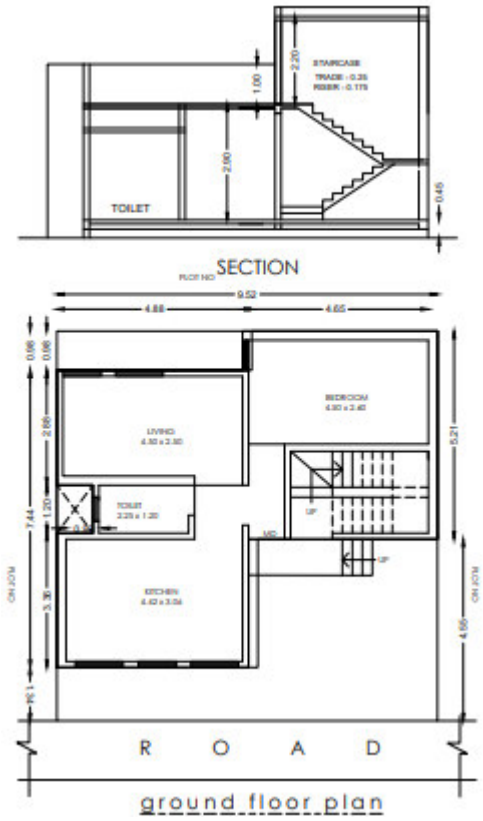
21. Define storage reservoir and its types ? Enlist the materials used for construction reservoir? Classify the reservoir as per shapes?

22.State different pumps used in water supply scheme and explain any two of them with neat sketch- Centrifugal pump / Rotary pump.

23. Design overhead water tank/ underground water tank for the apartment of 30 tenaments / for capacity of 200 person .Draw the neat sketch showing all connections? Make suitable assumptions wherever necessary ?

24. Sketch and discuss service connections in detail?

25.Draw a layout showing water supply arrangement in a given residential building?



26.Explain with neat sketch Pressure relief valve and check valve.

27. State and explain with neat sketch the function of any two among he following - Air relief valve / Gate valve / pressure valve / check valve / ball valve / sluice valve

28. Define Tap ? Sketch and describe any two types of taps – bib tap /pillar tap / aerated faucets

29. Sketch and describe the following – A. Solar Water Heater b. Boilers

30. Discuss the following systems of water supply for highrise buildings ?

Punya-Shloak Ahilyadevi Holkar Solapur University Solapur

QUESTION BANK

Course Name: B. Architecture - Semester : IV

SUBJECT TITLE : HISTORY OF ARCHITECTURE – IV

Q. WRITE SHORT NOTES ON - 5 MARKS EACH

1. Miharab and Minbar
2. Jail work / Tracery
3. Kiosk / Chatri
4. Inlay Work In Islamic Architecture
5. Five Pillers Of Islam
6. Ornamentation In Islamic Architecture
7. Minarets
8. Arches and Dome
9. Dome construction techniques in Islamic architecture
10. Pendentives and squinches
11. Dome and drum
12. Architectural characteristic features of imperial style
13. Slave dynasty
14. Alai Darwaza / Alai minar / Extension of quwat ul islam mosque complex under Khilji Dnasty
15. Tower of victory - Qutbminar at Delhi.
16. Tomb of Ghias-ud din Tughalaq
17. Mosque at Gulbarga,
18. Whispering Gallery In Gol-Gumbaz
20. Tomb of Ibrhim Adil Shah
21. Intersecting arches of Golgumbaz
22. Characteristic features of Moghal style of Islamic architecture
23. Bulbous dome
24. Panchmahal / Jodha Bai's Palace / Raja Birbal's House / Diwan-i-khas / Diwan-i-am / Buland Darwaza / Saint Salim Chisti's Tomb / Mosque in Fatehpur sikri / Tomb of Sheikh Salim Chisti
25. Dome of Taj Mahal / Components of Taj Mahal
26. Mughal Garden/ Shalimar Bhagh / Char Bagh
27. Characteristic features of British Colonial architecture in India
28. India Gate / Raj Path / Jan Path
30. Ar. Edward Lutyns / Ar. Herbert Baker

PunyaShloak Ahilyadevi Holkar Solapur University Solapur

QUESTION BANK

Course Name: B. Architecture - Semester : IV

SUBJECT TITLE : HISTORY OF ARCHITECTURE – IV

Q. ANSWER THE FOLLOWING IN DETAIL (12 MARKS EACH)

1. Explain formation and development of Islamic architecture with reference to religious condition ? State five Pillers of Islam ?
2. What are the characteristic features of Islamic Architecture in India ?
3. What are the essential parts of an Indian mosque? Explain with neat sketches?
4. Explain the technique used by Islamic builders to provide a circular based dome over a square plan ?
5. What are the three main categories / three different parts of Islamic architecture in India ? Explain the characteristic features of the same?
6. Explain the various stages of construction of Quwt-Ul, Islam Mosque, Complex at Delhi under slave and Khiliji dynasty?
7. Explain with neat sketch Tower Of Victory – Qutb minar ?
8. Why Alai Darwaza is considered as truly Islamic Structure ? Draw plan and elevation of Alai Darwaza ?
9. Explain Islamic tomb architecture with reference to Tomb of Illtutmish ?
10. Enumerate architectural features of tomb of Ghias-Ud-Din Tughaq ?
11. What is mean by provincial style of Islamic architecture ? Explain its characteristic features ?
12. Describe architectural features of Deccan province with respect to Jami Masjid, Gulbarga?
13. What is mean by Rauza? Sketch and explain Ibrahmin rauza at Bijapur with help of neat sketches ?
14. With the help of neat sketch, explain the structural concept of intersecting arches used in Golgumbaz ?
15. Sketch and Explain in detail Gol Gumbaz at Bijapur ?
16. Why Moghal architecture in India is considered as a Zenith of Islamic architecture in India?
17. Sketch and explain "Buland Darwaza" in detail?
18. Sketch and describe salient features of the layout of Fatehpur Sikri?
19. Sketch and explain briefly Jami Masjid at Fatehpur Sikri ?
20. **D**raw neat sketches & explain any two of the following monuments in Fatehpur Sikri ? Panch mahal / Jodhabhai's Palace/ Raja Birbals House / Panch Mahal /Diwane am /Diwane Khass etc.
21. Sketch and explain layout of Taj Mahal Complex ?
22. Sketch and explain - Architectural master piece Taj Mahal ?
23. What is mean by Char Bagh ? Sketch and describe layout of Shalimar Bagh located at Shrinagar ?
24. What is meant by Colonial Architecture? Explain the architectural characteristic features of colonial architecture in India with reference to Rashtrapati Bhawan / Parliament House ?
25. Sketch and explain architectural features of Chatrapati Shiwaji Terminus, Mumbai?

B.ARCHITECTURE (SEMESTER–VI) (CBCS) EXAMINATION
BUILDING BYE-LAWS

50 MARKS

Q.2. WRITE SHORT NOTES ON (5 MARKS EACH)

1. Commencement certificate.
2. Marginal open space.
3. Parking space.
4. Refuge area.
5. Floor space index
6. Off street parking.
7. Habitable room.
8. Tenement density.
9. Occupancy certificate.
10. Concept of TDR
11. Height of Building
12. Industrial zone and uses permitted
13. Ancillary FSI
14. Development charges
15. Means of access
16. Agricultural zone
17. Mezzanine floor
18. Service floor
19. Rain water harvesting
20. Residential zone
21. Amenity space
22. Development plan
23. Recreational open space
24. Amalgamation of plots
25. Staircases

26. Barrier free access

Q.3. ANSWER THE FOLLOWING (15 MARKS EACH)

1. Enumerate the different types of occupancy/ use group defined as per development control rules? Explain in detail any three.
2. Write a note on procedure for obtaining Development permission
3. Write a note on subdivision/ layout of a plot.
4. Write a note on recreational open spaces in a layout or subdivision of a plot?
5. Explain content and process of Building ApprovalPlan.
6. What are the various provisions made for various amenities in a layout or subdivision of a plot?
7. Explain various land use classifications provided for in the Urban Development Control and Promotion Regulations?
8. Write a note on Floor Space Index and the various provisions provided for in UDCPR
9. What are the minimum drainage and sanitation provisions for various buildings required as per development control rules?
10. Explain the concept of F.S.I and how is it important as a regulator for growth.
11. Explain necessity of fire protection requirement and write a note on exit requirements.
12. What are the standard space requirements for various parts of building?

QUESTION BANK

B. Arch –I year, Sem-I --- CBCS pattern (New)

Building construction and material –I

BRICK MASONRY

Drafting questions

1. Draw isometric view of a standard brick and various types of bricks any 10
2. Draw a typical section of building, label its various components and define any 5
3. Draw plan, elevation and isometric view of header bond
4. Draw plan, elevation and isometric view of stretcher bond
5. Draw plan, elevation and isometric view of English bond
6. Draw plan, elevation and isometric view of Flemish bond
7. Draw plan, elevation and isometric view of one and half brick thick masonry wall (L -junction) with English bond.
8. Draw plan, elevation and isometric view of one and half brick thick masonry wall (L -junction) with Flemish bond.
9. Draw plan, elevation and isometric view of two brick thick masonry wall (L -junction) with English bond.
10. Draw plan, elevation and isometric view of two brick thick masonry wall (L -junction) with Flemish bond.
11. Draw plan, elevation and isometric view of two brick thick masonry wall (T -junction) with English bond.
12. Draw plan, elevation and isometric view of one and half brick thick masonry wall (Cross junction) with English bond.
13. Draw plan, elevation and isometric view of one and half brick thick masonry wall (Cross junction) with Flemish bond.
14. Draw plan, elevation and isometric view of one and half brick thick masonry wall (T-junction) with main wall in Flemish bond and internal wall in English bond

2. With neat sketches write short notes on-

1.Define - course, bat, frog, header, stretcher, closer, queen closer, king closer, bevelled closer, mitred closer, bull nose, cow nose, squint quoin, frog, toothing.
2. Types of bonds in brickwork
3. Compare English and Flemish bond
4. Compare brickwork and stone work
5. Closer and its types
6. Compare single Flemish bond and double Flemish bond

STONE MASONRY

Drafting questions

1. Draw to scale 1:10 elevation and section of coursed, un coursed, random rubble, polygonal rubble masonry,
2. Draw to scale 1:10 elevation and section of ashlar fine, ashlar rough tooled masonry, ashlar quarry faced, ashlar chamfered.
3. Draw to scale 1:10 elevation and section of any 4 types of rubble masonry.
4. Draw to scale 1:10 elevation and section of any 4 types of ashlar masonry.
5. Dressing of stones
6. Joints used in stone masonry.

With neat sketches write short notes on-

1. Define – corbel, cornice, coping, jamb, masonry, natural bed, throating, weathering, sill course, plinth, string course, quoins, bond, through stones, reveals, buttress, pilaster.
2. Types of joints in stone masonry.
3. Classification of stone masonry.
4. Rubble masonry

5. Coursed rubble masonry
6. Un coursed rubble masonry
7. Random rubble masonry
8. Ashlar masonry
9. Distinguish between ashlar and rubble masonry.
10. Types of ashlar masonry

FOUNDATIONS

1. Draft a section of simple load bearing foundation in bricks
2. Draft a section of simple load bearing foundation in stone
3. Draft a section of foundation in black cotton soil
4. Draw to appropriate scale, section of retaining wall

With neat sketches write short notes on-

1. Retaining wall.
2. Composite walls.
3. Foundation in black cotton soil

Building material

SOIL

Answer in detail: -

1. Describe the characters, physical properties of soil.
2. Explain bearing capacity of soil and angle of repose
3. Describe the properties and types of soil.
4. Describe the uses and types of soil.

Write short notes on-

1. Bearing capacity of soil
2. Angle of repose
3. Types of soil
4. Properties of various types of soil
5. Uses of soil

BRICK

Answer in detail: -

1. Explain in detail the manufacturing process of brick.
2. Discuss the operation of preparation of clay for the manufacture of bricks.
3. Describe the two ways of moulding of bricks
4. Discuss the process of burning of bricks in clamps
5. Discuss the process of burning of bricks in intermittent kilns
6. Enumerate the qualities of good bricks and uses of various types of bricks.
7. Enumerate the tests to which bricks are generally subjected and uses of various types of bricks.

Write short notes on-

1. Uses of bricks
2. Qualities of good bricks
3. Classification of bricks
4. Hand moulding of bricks
5. Drying of brick
6. Burning of bricks
7. Clamp burning
8. Kiln burning
9. Mortar used for brick work

STONE

Answer in detail: -

1. Mention any five good qualities of stone and any 5 uses of stone.
2. Describe the methods of quarrying with hand tools
3. Describe the methods of quarrying with channelling machines.
4. What is meant by dressing of stone? Describe its various varieties.
5. How is artificial stone prepared? What are its different forms
6. Mention the advantages of artificial stones
7. Types of rocks
8. Mention the classification, qualities, uses and localities where they are available in India – Granite, limestone, marble, sandstone, slate, laterite, kankar, quartzite.

Write short notes on-

1. Advantages of artificial stones
2. Good qualities of stone
3. Uses of stone.
4. Quarrying and its methods.
5. Dressing of stones
6. Varieties of dressing of stones.
7. Mortar used for stone work
8. Types of rocks

ALTERNATIVE MATERIALS FOR WALL CONSTRUCTION

1. Uses of concrete masonry unit, clay blocks, fly ash blocks, aerated concrete blocks, stabilized mud blocks, adobe, and cob.
2. Properties of concrete masonry unit, clay blocks, fly ash blocks, aerated concrete blocks, stabilized mud blocks, adobe, and cob.
3. Construction and detailing of masonry with the following materials- concrete masonry unit, clay blocks, fly ash blocks, aerated concrete blocks, stabilized mud blocks, adobe, and cob.

QUESTION BANK – TOS-I – BARCH – SEM-I – 2021

SHORT ANSWER QUESTIONS

1. Write detailed note on doors along with figures.
2. Write detailed note on windows along with figures.
3. Write detailed note on foundations along with figures.
4. Write detailed note on staircase along with figures.
5. Write detailed note on components of structure along with figures.
6. Write detailed note on superstructure components of building.
7. Write detailed note on framed structure.
8. Write detailed note on structures of building.
9. Write detailed note on load bearing structure.
10. Write detailed note on dead load acting on structure.
11. Write detailed note on live load acting on structure.
12. Write detailed note on wind load acting on structure.
13. Write detailed note on earthquake load acting on structure.
14. Write detailed note on minor loads acting on structure.
15. Write detailed note on evaluation of dead load acting on different components of structure.
16. Write detailed note on evaluation of live load acting on different components of structure.
17. Write detailed note on evaluation of wind load acting on different components of structure.
18. Write detailed note on evaluation of earthquake load acting on different components of structure.
19. Write detailed note on centroid.
20. Write detailed note on centre of gravity.
21. Derive expression for centroid of rectangular section.
22. Derive expression for centroid of circular section.
23. Derive expression for centroid of hollow rectangular section.
24. Derive expression for centroid of hollow circular section.
25. Derive expression for centroid of T section of flange of size Bf X Tf and web Bw and Tw.
26. Derive expression for centroid of L section of flange of size Bf X Tf and web Bw and Tw.
27. Derive expression for centroid of triangular, semi-circular section.
28. What do you mean by force? Explain the systems of forces.
29. What do you mean by beam? Explain the types of beams.
30. What do you mean by varignon's theorem? Explain with its use.
31. What do you mean by law of parallelogram? Also explain lami's theorem.
32. What do you mean by couple? What are its properties?
33. How the resultant of concurrent and non-concurrent force system is found out graphically? Explain in detail.
34. How the resultant of concurrent force system is found out graphically? Explain in detail.
35. What do you mean by equilibrium? What are the conditions of equilibrium for concurrent and non-concurrent force system?
36. What do you mean by Point load, UDL and UVL?

LONG ANSWER QUESTIONS

1. A) Find the resultant force and its direction if two forces 20KN and 40KN are acting along the adjacent sides of a parallelogram making an angle of 60^{O}. B) Solve the same problem considering that forces have different sense.
2. Two forces of magnitude of 200N and 400N are acting at 70^{O} to each other. Determine the resultant in magnitude and direction if- i) both have same sense ii) both have different sense.
3. Find the magnitude of two forces such that if they act at right angles their resultant is $\sqrt{}$ 10 KN and when they act at an angle of 60^{O}, their resultant is $\sqrt{}$ 13 KN.
4. Find the angle between two forces of magnitude of 120KN each such that their resultant is 60KN. Also solve the same problem considering forces of 150KN.
5. Two forces 100N and 180N having inclined at an angle of 135^{O} are acting on a particle. Find graphically the resultant in magnitude and direction. Solve the same considering forces have opposite sense.

6. Resolve each of the following forces into orthogonal components
   i) 350N acting south west away
   ii) 200N acting north east away
   iii) 40N acting 40^O west of south away
   iv) 400N acting due south away
7. Determine the resultant of the four forces acting on a hook as shown in the fig. 1.

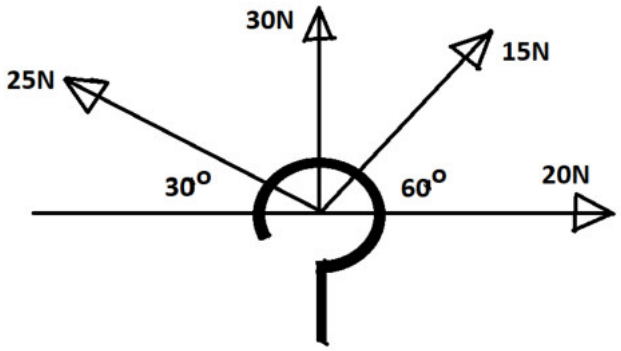


Fig. - 1

8. Five forces of 150, 230, 340, 450 and 560N are acting at angle of 50^O, 110^O, 200^O, 270^O and 330^O in anti-clockwise direction from x axis at a point, all acting away from the point. Find the resultant force in magnitude and direction.
9. Resolve each of the following forces into orthogonal components
   i) 250N acting north west away
   ii) 400N acting south east away
   iii) 50N acting 70^O west of south away
   iv) 250N acting due north away
10. Determine the resultant of forces acting at a point as shown in the fig. 2.

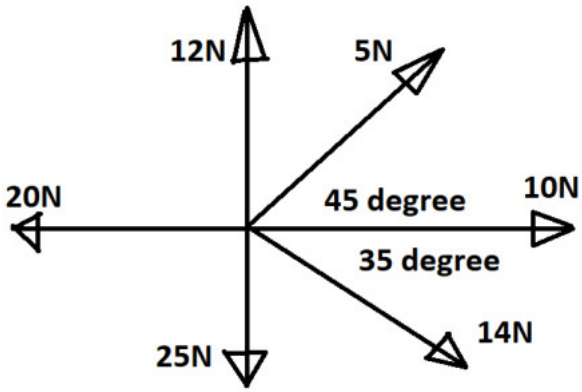
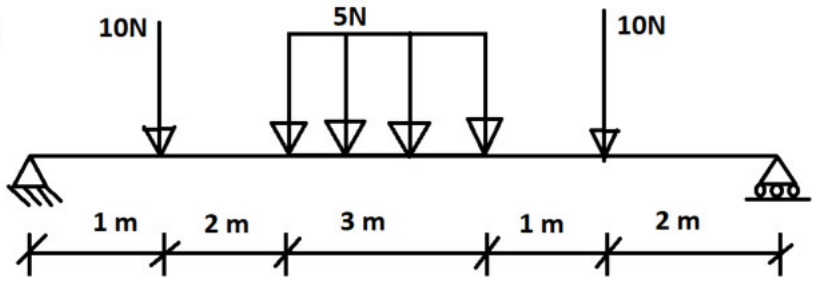


Fig. - 2

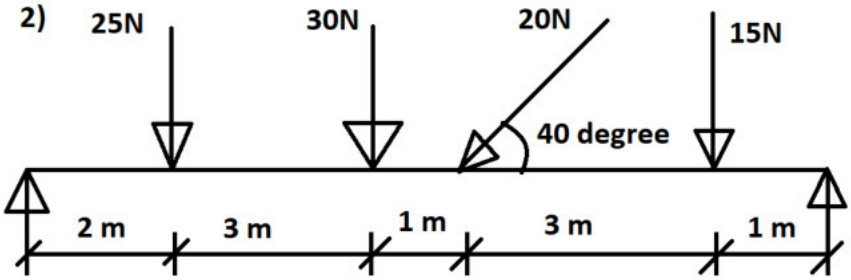
11. A ball weighing 150N is suspended vertically by a string attached to ceiling. Find the magnitude of force which should be applied horizontally which will make the string inclined at 120^O to the direction of force.
12. A electric bulb of 30N weight is hanging from ceiling. Its wire is pulled by a force acting at an angle of 40^O to the horizontal such that the wire makes an angle of 60^O with the ceiling. Find the magnitude of force and tension in the wire.
13. A body of weight 100N is suspended by two strings of 4m and 3m lengths attached at the same horizontal level 5m apart. Find tension in the strings.
14. A sphere weighs 1200N. It is supported by two planes at 35^O and 50^O to the horizontal respectively. Calculate the support reactions.
15. A sphere weighing 500N is supported by two planes. One plane is vertical and other is inclined at an angle of 60^O to the horizontal. Calculate the reactions at the planes.

16. Find the reactions of following beams.

1)



2)



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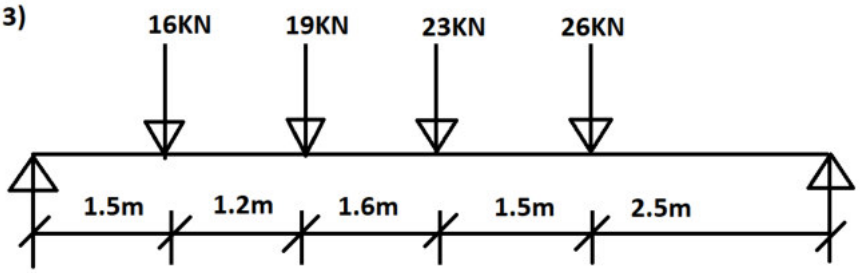

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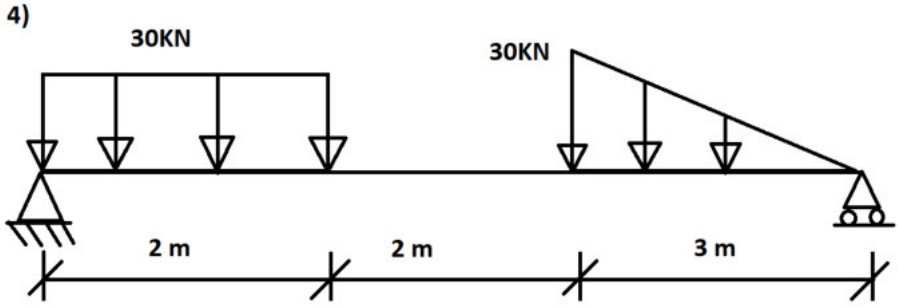

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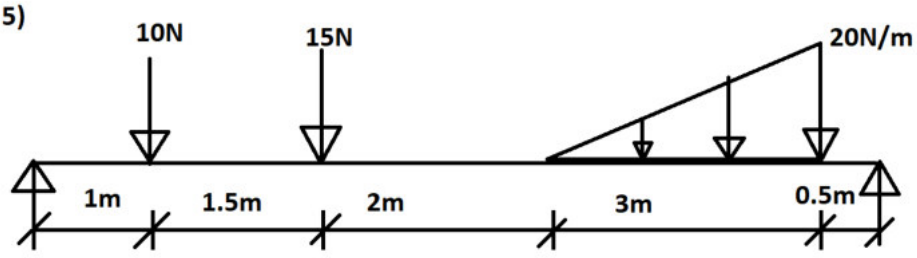
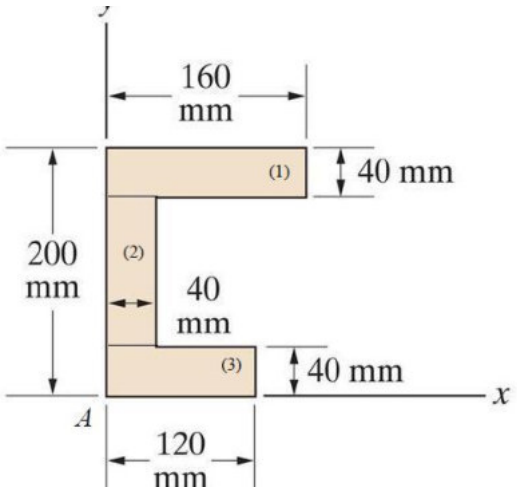
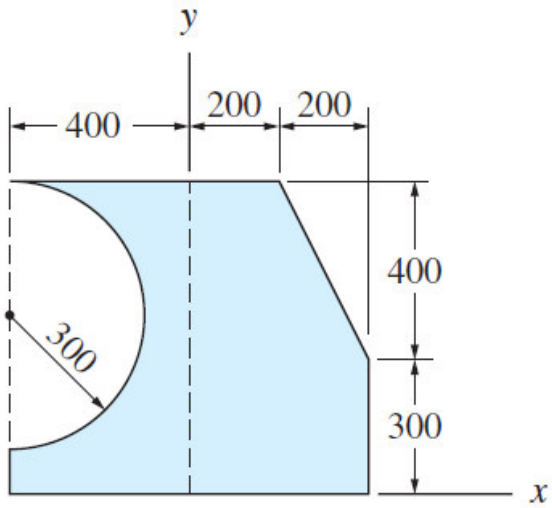


17. Find centroid of following figures. (All dimensions are in mm)

1)



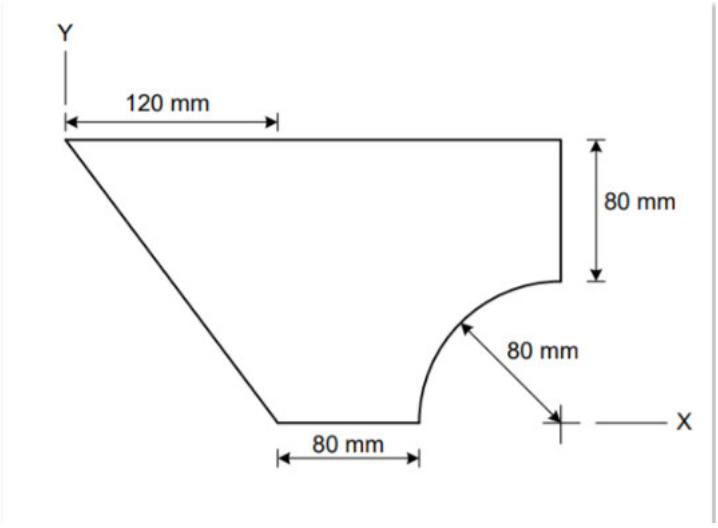
2)



Dimensions in mm

(a)

3)



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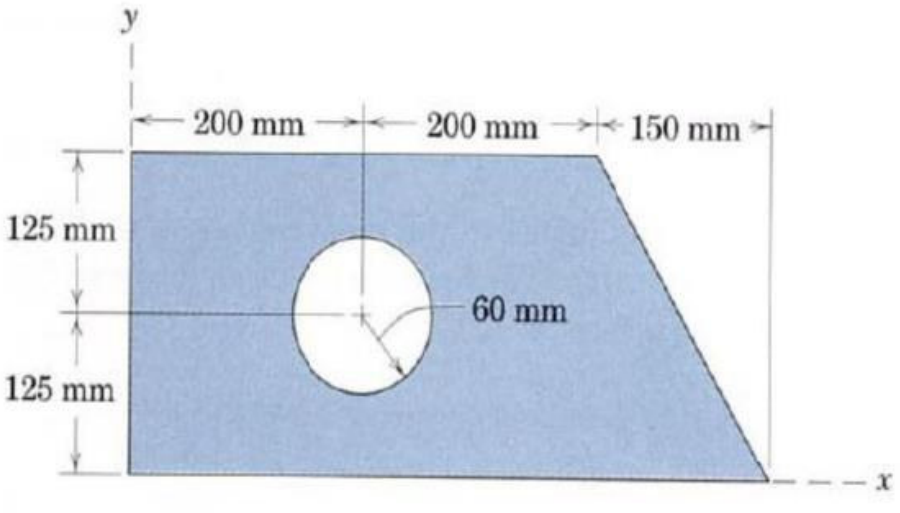

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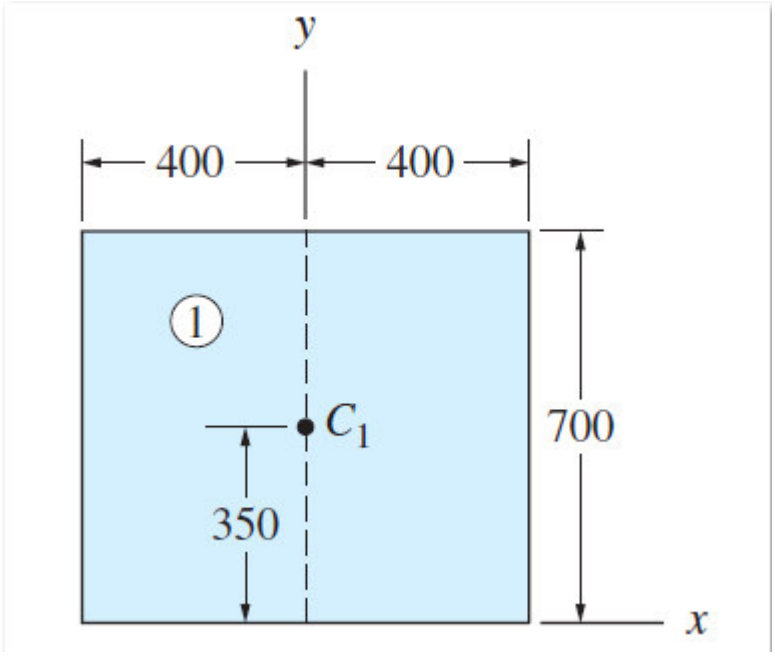


QUESTION BANK

Year and Sem - B. Arch -IVth Year, Sem-VII
Pattern - CBCS
Sub- PROFESSIONAL PRACTICE -I.

ARCHITECTURE AS A PROFESSIONAL PRACTICE

Write short notes on:-

1. Structure of an Architect's office.
2. Securing Client in an Architect's Office.
3. Architectural Services.
4. Services rendered by an architect.
5. Architectural copyright.
6. Duties of an architect towards society
7. Duties of an architect towards society
8. Indian Institute of Architects (IIA)
9. Types of firm with their advantages and dis advantages
10. Scale of fees for an architect
11. Stages of payment for an architect
12. Funds required, finance and tax implied while setting up a firm
13. Virtual and final certificate

Answer the following:-

1. Explain the various type of Architects firms that an architect wish with their advantages and disadvantages
2. Explain the Code of Conduct for architects as suggested by Council of Architecture.
3. Explain in detail the duties of an Architect towards client and society.
4. Which are the various stages and scale of fees of Architects fees as per C.O.A?
5. Explain in detail the role of COA in architectural education.
6. Architecture a profession and not a trade or business .justify
7. Explain in brief ARCHITECTS ACT 1972
8. Mention the various architectural and comprehensive services provided by an Architect in architecture and allied fields.

TENDER

Write short notes on:-

1. Tender Notice.
2. Demolition Tender
3. Security deposit.
4. Lump sum Tender.
5. Earnest Money Deposit.
6. Retention amount
7. Mobilization fund

8. Invitation of tender.
9. Tender documents
10. Types of tender
11. Tender types and its advantages and disadvantages.

Answer the following

1. Differentiate between Item Rate and Lump sum Tender.
2. What is Tender? Explain the process of tendering.
3. Write in brief contents of Tender document
4. Draft a typical format of Tender notice
5. Define Tender, Mention the documents required for tendering process and Write a tender notice for construction of a bungalow at Solapur
6. Mention the different types of tender and explain any two in detail with its advantages and disadvantages.
7. Distinguish between item rate tender and lump sum tender
8. Distinguish between lump sum tender and demolition tender

CONTRACT

Write short notes on:-

1. Contract
2. Types of contract
3. Contract document
4. Termination of contract
5. Defects liability period
6. Liquidated and un liquidated damages
7. Latent and patent defects.
8. Role of architects due to variation in rate analysis.
9. Role of architects in contract.

Answer the following

1. Define Contract, Explain Cost Plus Fixed Fee Contract and Cost Plus Percentage Contract.
2. What are the ways to resolve disputes arising out of Building Contract?
3. Explain the role of an Architect in framing a contract between the client and the contractor.
4. Write in brief general principles of contract in a building.
5. Define contract. Mention the different types of contract and explain demolition and labour contract in detail.
6. Explain in short the effect of time, variation in rate analysis and extra or additional works to the contractor in contract.
7. Distinguish between item rate contract and lump sum contract

QUESTION BANK – TOS-II – BARCH – SEM-II – 2021

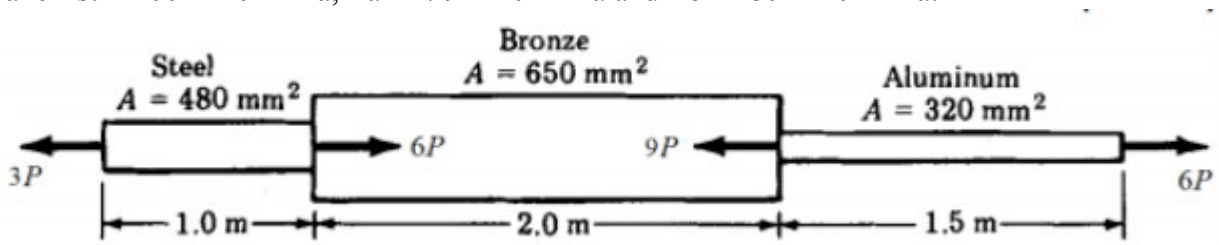
SHORT ANSWER QUESTIONS (Write note on following)

1. Strain-stress
2. Stress strain curve for mild steel
3. Modulus of elasticity, Shear modulus, Bulk modulus
4. Volumetric strain for bar of length L and rectangular cross section B X D.
5. Volumetric strain for bar of length L and circular cross section of diameter D.
6. Lateral strain, Longitudinal strain, Poisson's ratio
7. Parallel axis theorem
8. Perpendicular axis theorem
9. Moment of inertia
10. Radius of gyration
11. Centroid and centre of gravity
12. Mass moment of inertia
13. Shear force and bending moment
14. Relation between rate of loading, shear force and bending moment
15. Point of contraflexure with example
16. Types of beams
17. Types of supports
18. Types of loads
19. Assumptions in the Theory of Simple Bending,
20. Moment of Resistance
21. Flexural Formula
22. Shear stress formula
23. Section Modulus
24. Simple bending
25. Geometry of Trusses
26. Types of trusses
27. Perfect Frames, Imperfect Frames, Redundant and Deficient Frames
28. Assumptions in the Solution of Frames
29. Suitability of different trusses
30. Truss and frame

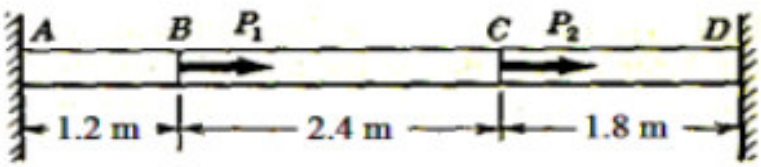
LONG ANSWER QUESTIONS

1. A composite bar subjected to axial loads as shown in fig. below.

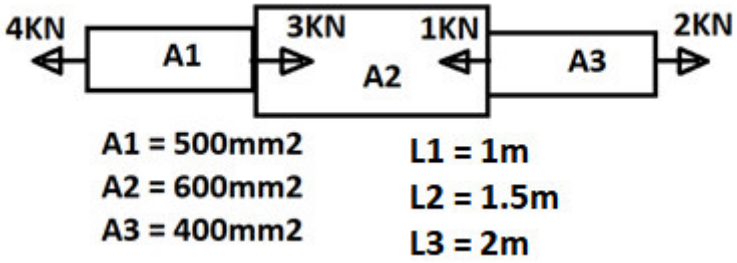
Determine largest value of P that will not exceed overall deformation of 4mm.
Take Est = 200 X 10^3 MPa, Eal = 70 X 10^3 MPa and Ebr = 80 X 10^3 MPa.



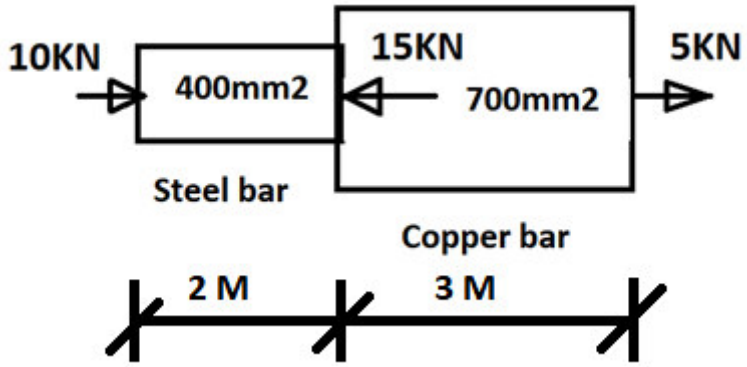
2. A homogeneous bar with cross sectional area 300mm^2 is firmly attached between the rigid end supports A and D as shown below. It carries axial loads P_1 = 50 KN, P_2 = 100 KN. Determine – i) reactions at A and D supports ii) maximum stress in the bar



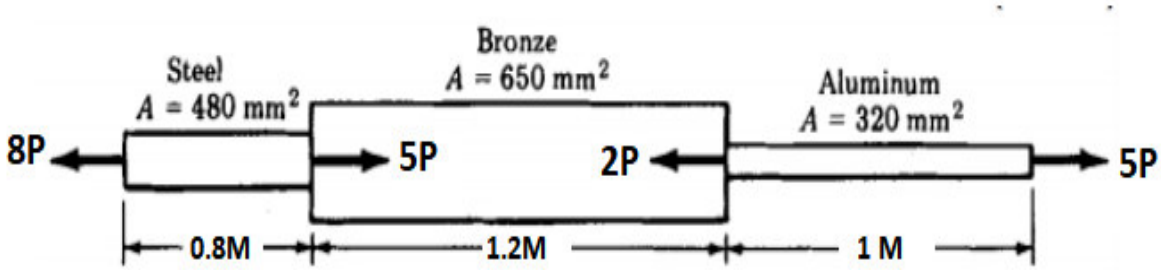
3. A steel bar subjected to axial loads as shown in fig. below. Find stresses in each section and total deformation. Take E = 2 X 10^5 N/mm^2



4. A composite bar subjected to axial loads as shown in fig. below. Find stresses in each section and total deformation. Take Est = 2 X 10^5 N/mm^2, Eco = 70 X 10^4 N/mm^2

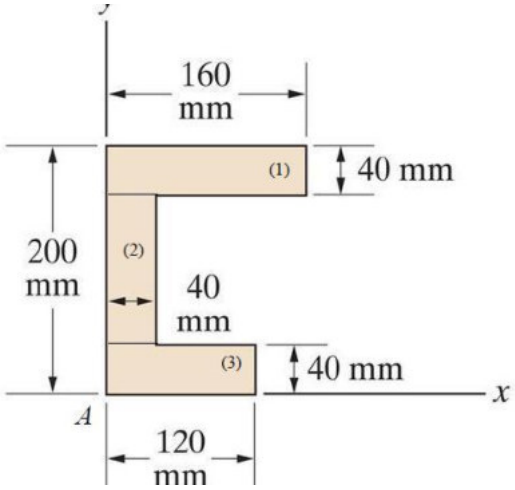


5. A composite bar subjected to axial loads as shown in fig. below.
Determine largest value of P that will not exceed overall deformation of 3mm.
Take Est = 210 X 10^3 MPa, Eal = 70 X 10^3 MPa and Ebr = 75 X 10^3 MPa.

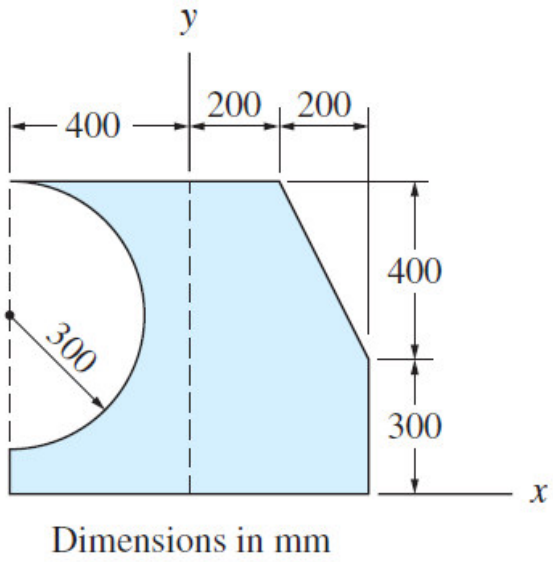


6. Find moment of inertia of following figures. (All dimensions are in mm)

1)



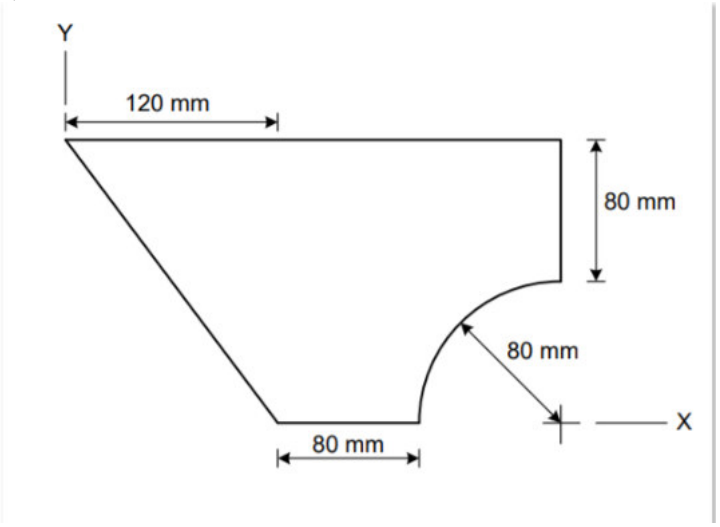
2)



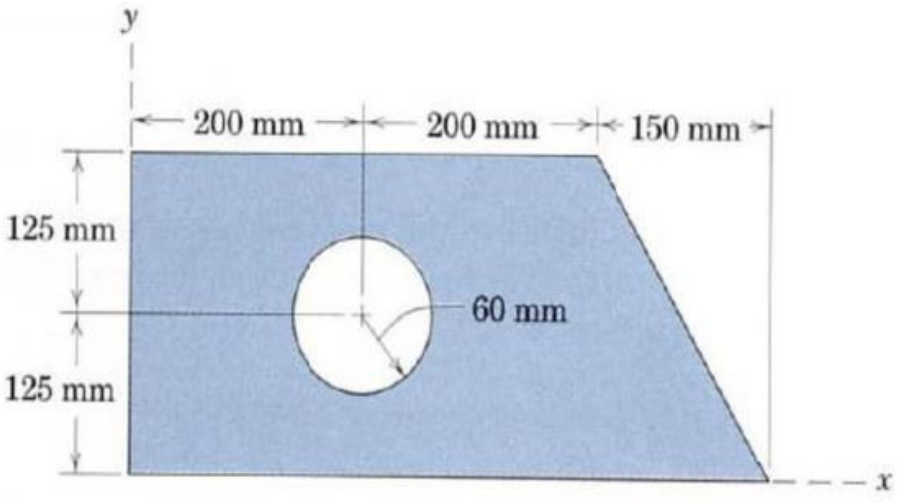
Dimensions in mm

(a)

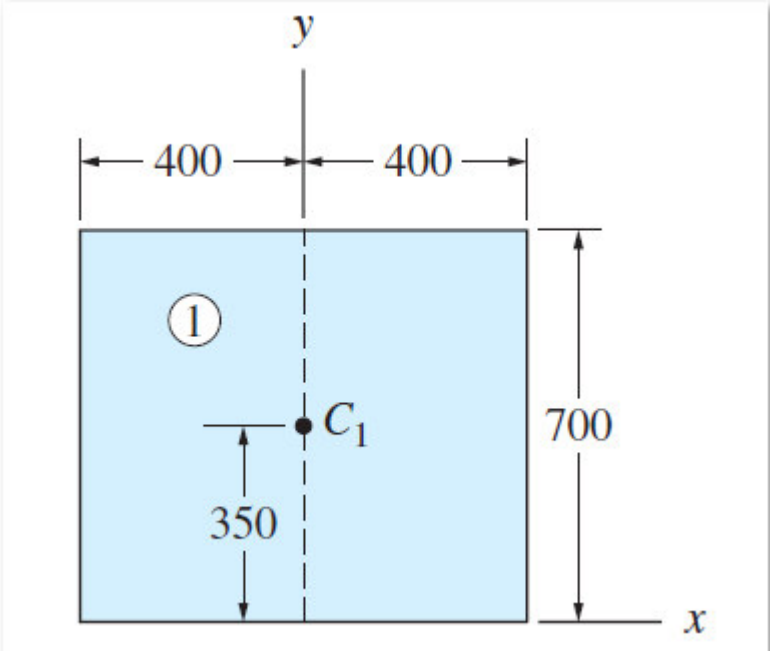
3)



4)

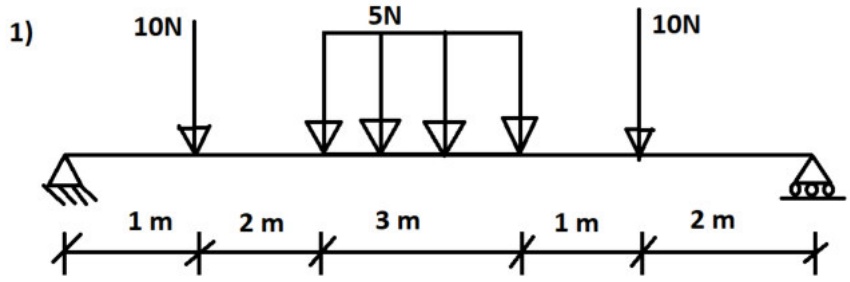


5)

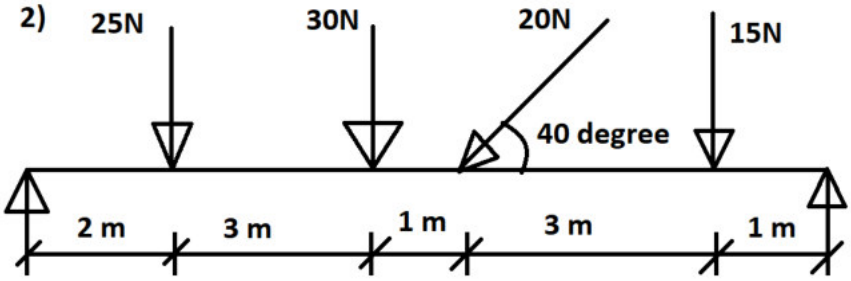


7. Draw SFD and BMD of following beams.

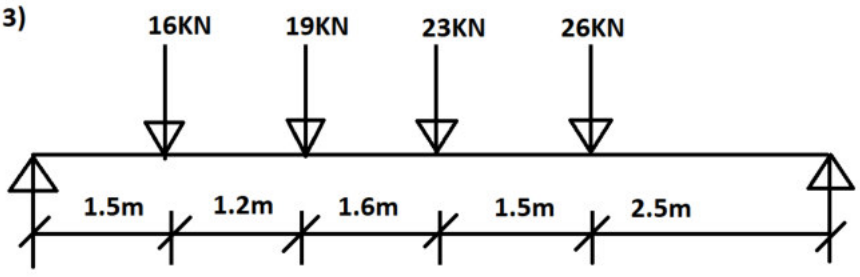
1)



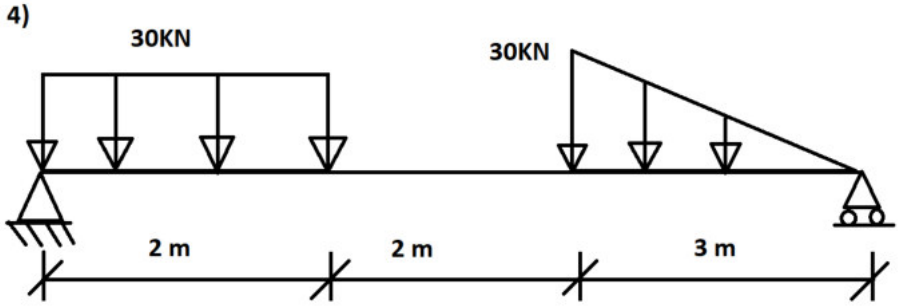
2)



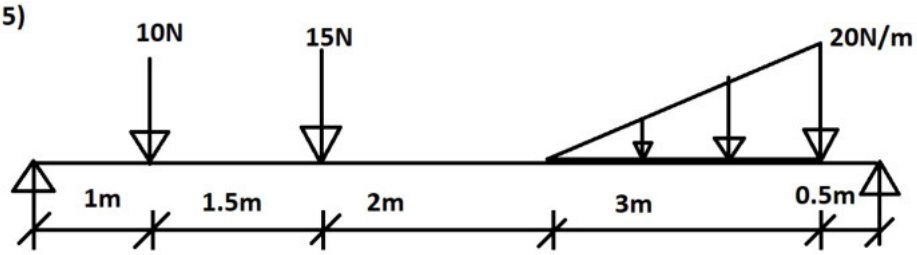
3)



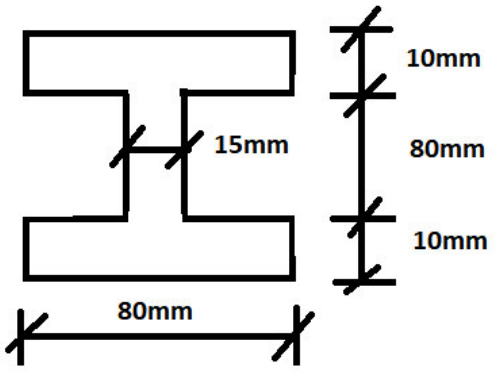
4)



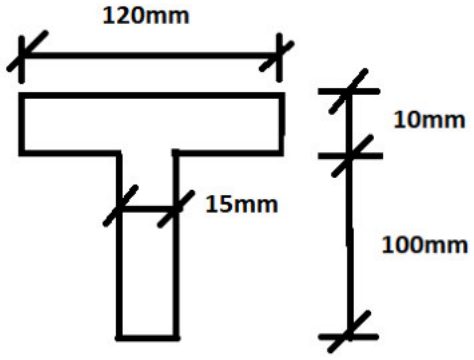
5)



8. A beam of rectangular cross section 100mm X 80mm is subjected to shear force of 50KN and bending moment of 30KNm. Find –
   i) Shear stress at NA
   ii) Shear stress at 20mm above NA
   iii) Bending stress
9. A beam of circular cross section having 75mm diameter is subjected to shear force of 60KN and bending moment of 25KNm. Find –
   i) Shear stress at NA
   ii) Average Shear stress
   iii) Bending stress
10. An I section steel beam is subjected to shear force of 70KN. Draw shear stress distribution diagram. Refer fig. below.



11. A T section steel beam is subjected to shear force of 62.50KN. Draw shear stress distribution diagram. Refer fig. below.



12. A simply supported beam of length 5m is subjected to central point load of 40KN. The beam is 100mm deep X 60mm wide. Draw bending stress distribution diagram

QUESTION BANK – TOS-IV – BARCH – SEM-IV – 2021

SHORT ANSWER QUESTIONS (Write note on)

1. Failure criteria of columns
2. Equivalent length of column
3. Crippling load
4. Core of rectangular section
5. Core of circular section
6. Eccentric and concentric load
7. No tension condition
8. Direct and bending stress due to eccentric load
9. Types of retaining wall
10. Components of retaining wall
11. Factor of safety against sliding and overturning
12. Maximum and minimum pressures at base of retaining wall
13. Types of masonry structures
14. Allowable stresses in masonry structures
15. Concept of slope and deflection
16. Derivation of moment curvature relation
17. Max Slope and deflection of cantilever beam of length L subjected to point load P at free end
18. Max Slope and deflection of cantilever beam of length L subjected to UDL w over entire length
19. Working stress method
20. Limit state method

LONG ANSWER QUESTIONS

1. A solid round bar 4m long and 7cm in diameter is used as a strut, determine the crippling load. Take $E=2.1x10^5N/mm^2$.

a) One end hinged and other end fixed

b) One end is fixed and other end is free

c) Both the ends are fixed.

2. A sqaure bar 3.5m long and 6.5cm in size is used as a strut, determine the crippling load. Take $E=2x10^5N/mm^2$.

a) One end hinged and other end fixed

b) One end is fixed and other end is free

c) Both the ends are hinged.

3. A rectangular bar 3 m long and 100 mm X 60 mm in size is used as a strut, determine the crippling load by Euler's and Rankine's theory. Take $E=2x10^5N/mm^2$.

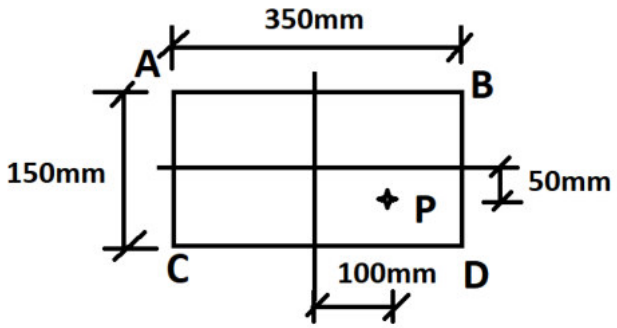
4. A square bar 3 m long and 80 mm X 80 mm in size is used as a strut, determine the crippling load by Euler's and Rankine's theory. Take $E=2.1x10^5N/mm^2$.

5. A square bar 3 m long and 80 mm X 80 mm in size is used as a strut, determine the crippling load by Euler's and Rankine's theory. Take $E=2.1x10^5N/mm^2$.

6. A rectangular mild steel flat 150mm. wide and 12.mm thick carry tensile load of 180KN at on eccentricity of 10mm in plane bisecting the thickness. Find max and min intensity of stress.

7. A hollow circular section having external dia 300mm and internal dia 250mm carries a load of 100KN at an eccentricity of 125mm. Calculate the max and min intensities of the stress in the section.

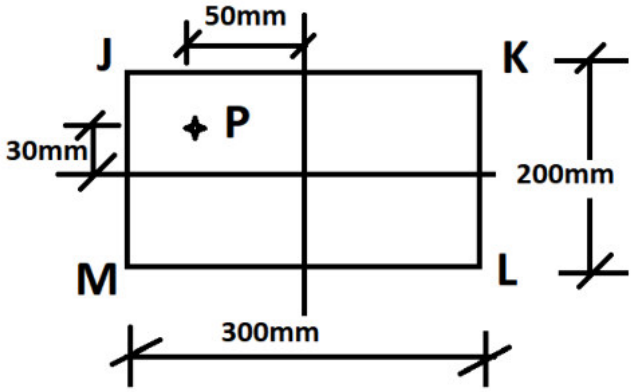
8. A column carries a vertical load of 300 KN as shown in the fig. below. Determine the stresses at each corner.



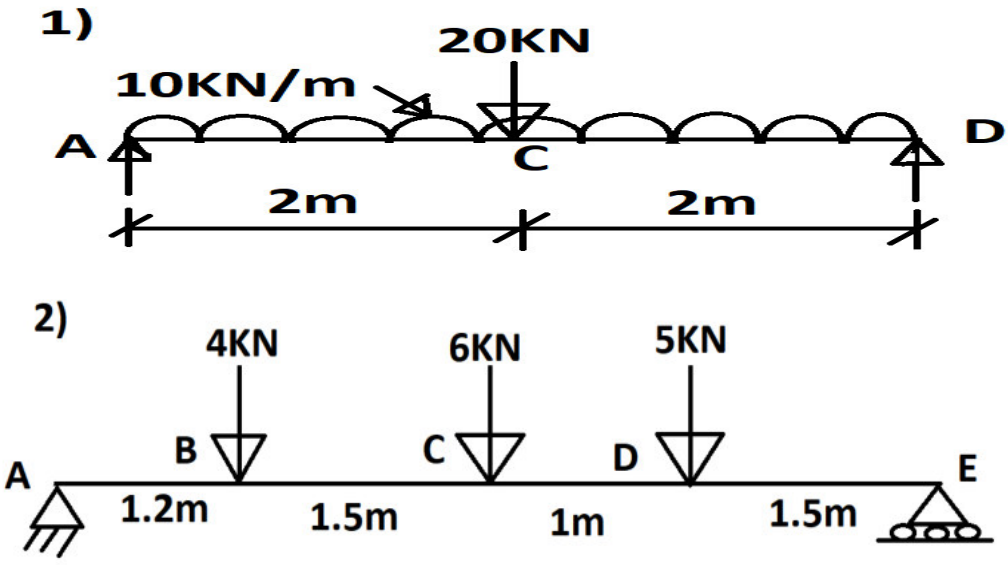
9. i) A square column has co-centric circular cavity of 37.5 mm in diameter. If the maximum load of 220KN is applied at an eccentricity of 10mm with respect to xx axis and maximum compressive stress is limited to 80 MPa. Find the size of the square column.

ii) Solve the above problem for outer rectangular column if B / D = 0.6.

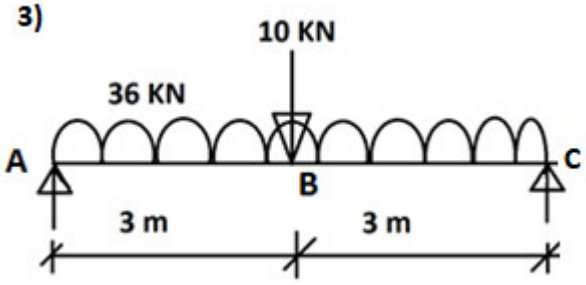
10. A column carries a vertical load of 150 KN as shown in the fig. below. Determine the stresses at each corner.



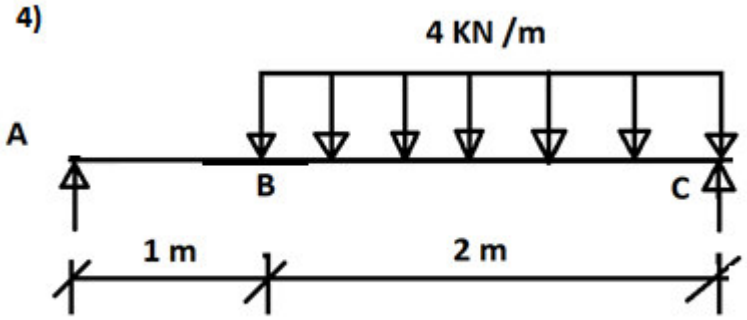
11. Determine slope and deflection at various points for following beams.



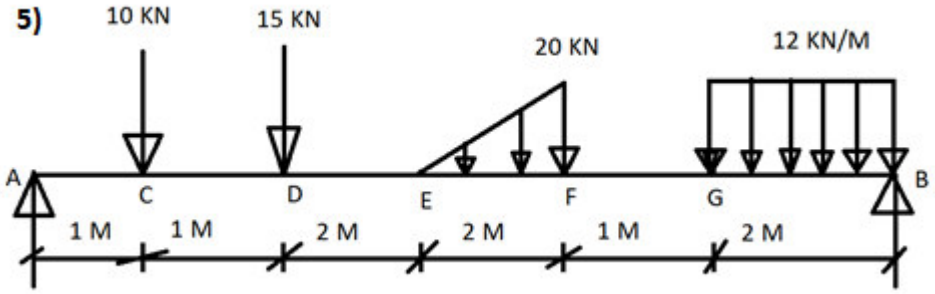
3)


10 KN
36 KN
A
B
C
3 m
3 m

4)


4 KN /m
A
B
C
1 m
2 m

5)


10 KN
15 KN
20 KN
12 KN/M
A
C
D
E
F
G
B
1 M
1 M
2 M
2 M
1 M
2 M

PunyaShloak Ahilyadevi Holkar Solapur University Solapur

QUESTION BANK

Course Name: B. Architecture - Semester : I

SUBJECT TITLE: HUMAN SETTLEMENT PLANNING

Q.No. 1. Write notes on: 5 marks each

1. Evolution of human being
2. Stone age
3. Prehistoric settlements
4. Stone tools used by stone age people
5. The religious ideas during the Vedic period.
6. Political system in the Vedic period.
7. Gods and goddesses worshiped by the Aryans
8. The political ideology of the Mauryan
9. Founder of Mauryan dynasty- Chandragupta Maurya
10. Arthashastra by Chankya
11. The Vedic literature
12. Christian religion
13. King Hamurabi / Iliad and Oddisy
14. Greek democracy
15. The social classes/ division in the Vedic Period
16. The occupations of the Aryans
17. Mummification
18. Orders in architecture
19. Industrial town
20. Grid iron pattern
21. Cave settlement
22. Cenote
23. Chinese pagoda
24. Jain temple town
25. Garden city
26. Roman Cities
27. Medieval city
28. Elephant caves
29. Ellora caves / Ajanta caves
30. Man and nature
31. Natural and built environment
32. Mayan Culture
33. Ramayana and Mahabharata
34. Islamic Religion / Five Pillars Of Islam
35. Fortress city
36. Citadel
37. City of Ur
38. City of Babylon
39. Renaissance
40. Religious beliefs of Christianity.

Q.No. No. 2 – Write Answers In Detail? 12 Marks Each

1. Discuss relationship between man and environment?
2. Discuss "Man is a SOCIAL ANIMAL".
3. How would you justify the study of human settlements in human geography?
4. What is Settlement? What are the patterns of settlement – sketch and describe?
5. What are the elements of human settlements?
6. What are suburbs? Why do people shift to suburbs? What is a healthy city?
7. Distinguish between Administrative' towns and Cultural towns.
8. Which are the two major types of settlements according to their shape found in the world?
9. Differentiate between rural and urban settlement?
10. What are rural and urban settlements? Mention their characteristics.
11. Discuss about Classification of Rural /Urban settlements?
12. Discuss about Evolution of Human Settlement -
13. Discuss about the origin of human settlement?
14. What factors influence human settlement?
15. What are the bases of classifying settlements?
16. Why did the earliest civilizations grow up near rivers?
17. Explain the significance of River Nile in Egyptian civilization?
18. Give examples of ancient towns of India.
19. Describe the town planning and the drainage system of the Indus Valley Civilization.
20. Harappa cities demonstrate a good sense of civil planning and organization – give reason
21. Why did the Indus Valley Civilization develop on the banks of river Indus?
22. Discuss the trade in the Indus Valley Civilization.
23. Describe the economic conditions of the Indus valley people.
24. Give reasons – Seals are most distinct relic of Indus Valley Civilization.
25. Describe any two features of the drainage system in Indus Valley Civilization.
26. Discuss any two layouts of town as per Mansara-Vastushastra
27. Takshashila University was one of the oldest universities of the world with which were associated a number of renowned learned personalities of different disciplines. Its strategic location caused its fame to flourish but unlike Nalanda, it is not considered as a university in the modern sense. Discuss.
28. Nalanda is the symbol of the most glorious period of Indian history. Explain how?
29. Discuss about Stone age settlements?
30. What are the religious beliefs of ancient Egyptian people? How does it has shaped their civilization
31. Discuss roman civilization with respect to social and economical conditions?
32. Discuss salient features of Roman Towns
33. Describe Aegean civilization taking an example of Mesopotamia
34. Write in brief about temple town in India?
35. Discus ancient town – Patliputra –the garden city
36. Discuss about formation and development of Japanese Civilization?
37. Write detailed note on Evolution of rock cut architecture in India?
38. Explain in brief geography of Greece and Climate?
39. Discuss main aspects of Greek Civilization?
40. Discuss Renaissance settlements?
41. Discuss about ancient Chinese civilization / Yellow river valley civilization?
42. Discuss about Mayan culture and civilization?
43. What is meant by Industrial Revolution? Discuss its impact on society?
44. How ideal of secularism changed till independence with reference to Indian sub-continent?
45. Write detailed note on Medieval Cities?