

V.S.B. ENGINEERING COLLEGE, KARUR
Department of Civil Engineering
Academic Year: 2018-2019 (EVEN Semester)

Assignment Questions

Class / Semester: III year / VI Semester B.E. – Civil Engineering “A” Sec

Name of Subject: Design of Reinforced concrete and Brick Masonry Structures

Name of Faculty member: M.Praveena

| Sl. No. | Name of the Student | Questions |
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| 1 | Adarsh S | Explain briefly about various types of retaining walls with a neat sketch. |
| 2 | Akila P | Write the applications of retaining walls and sketch the arrangement of reinforcement of retaining walls. |
| 3 | Aniket M Veneed | With a neat sketch explain the various types of water tanks. |
| 4 | Apshara G | Sketch the arrangement of circular slabs with different loading conditions and explain the various methods to determine the loads in circular slabs. |
| 5 | Aravindhyan K | Explain briefly about intz type water tank with a neat sketch and also draw its reinforcement details. |
| 6 | Aravinth N | Write in detail in various loading conditions in staircases and draw a neat sketch on different types of staircases. |
| 7 | Assarudeen D | Explain the methods of designing shear key in retaining walls and also write the principles involved in different components of retaining wall. |
| 8 | Brithiviraj S | With a neat sketches explain the methods involved in flat slabs and sketch its components. |
| 9 | Chandra Prakash R | Explain the various principles involved in design of box culvert. |
| 10 | Chandru D | With a neat sketch explain the bridges and its various components. |
| 11 | Deepak V | List out the various bricks arrangement used in buildings with a neat sketch. |
| 12 | Dharsheni P | Derive the principles the ultimate design moments for a rectangular simply supported slab panel using yield line approach. |
| 13 | Dhivakar K | Explain the factors to be considered while designing brick masonry with respect to stability and lateral supports on the structure. |
| 14 | Dinesh S | Enumerate the various loading conditions adopted in brick masonry under different support and loading conditions. |
| 15 | Dinesh Kumar G | Write the advantages, disadvantages, uses and applications of design of brick masonry. |
| 16 | Divyadharshini D | Explain the various principles involved in design of Road bridges. |
| 17 | Elamezhilan K | Explain the various principles involved in design of Mat Foundation. |

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| 18 | Ganesh Prabhu B | Explain in detail about Buttress retaining wall. |
| 19 | Gokul G | Explain in detail about type of soil Pressure acting on retaining wall structures. |
| 20 | Gokularaj V | Discuss in detail about the different types of dam located in Tamilnadu. |
| 21 | Gopi P | Explain in detail about the design of construction of 'Kallanai dam'. |
| 22 | Gowri Sankar N | Explain in detail about the design of Over head water tank. |
| 23 | Gurunathan S | Explain in detail about the design of Underground Rectangular water tank |
| 24 | Janarthanam V | Explain in detail about the forces acting on Hydraulic structures. |
| 25 | Jayaprakash A | Explain in detail about the crack pattern developed on Rectangular slab. |
| 26 | Keerthana R | Explain in detail about the yield line theory. |
| 27 | Maharani S | Derive the expression of yield line theory for circular and triangular RC slab. |
| 28 | Mahesh Babu R | Explain in detail about Gravity retaining wall. |
| 29 | Manoj S | Describe the bonds in Brick masonry. |
| 30 | Mohamed Asif N | Write down the uses of counterfort retaining walls. |
| 31 | Mohamed Azarudeen S | Explain in detail about the design of Rectangular water tank rest on ground. |
| 32 | Monisha S | Derive the Rankine's theory. |
| 33 | Monisha V | Explain the components of stair cases. |
| 34 | Muruganatham R | Explain in detail about the dog legged and straight stair cases. |
| 35 | Muthu Palaniappan G | Explain in details about the design of flat slab. |
| 36 | Narmatha K | Derive the expression of One way and two way slab. |
| 37 | Naveen S | Differentiate working stress and limit state methods. |
| 38 | Naveena C | Write down the codal provisions of design of water tanks. |
| 39 | Kumaresan B | Write down the codal provisions of Brick masonry structures. |

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Assignment Questions

Class / Semester: III year / VI Semester B.E. – Civil Engineering “B” Sec

Name of Subject: Design of Reinforced concrete and Brick Masonry Structures

Name of Faculty member: M.Praveena

| Sl. No. | Name of the Student | Questions |
|---------|----------------------|--|
| 1 | Nijanathan C | Explain briefly about various types of retaining walls with a neat sketch. |
| 2 | Nikil Chakravarthi S | Write the applications of retaining walls and sketch the arrangement of reinforcement of retaining walls. |
| 3 | Pavithra P | With a neat sketch explain the various types of water tanks. |
| 4 | Poonivalavan K | Sketch the arrangement of circular slabs with different loading conditions and explain the various methods to determine the loads in circular slabs. |
| 5 | Pooja Berdina D | Explain briefly about intz type water tank with a neat sketch and also draw its reinforcement details. |
| 6 | Pradeep M | Write in detail in various loading conditions in staircases and draw a neat sketch on different types of staircases. |
| 7 | Prakash M | Explain the methods of designing shear key in retaining walls and also write the principles involved in different components of retaining wall. |
| 8 | Praveen Kumar V | With a neat sketches explain the methods involved in flat slabs and sketch its components. |
| 9 | Pravin M | Explain the various principles involved in design of box culvert. |
| 10 | Priyadarshini T | With a neat sketch explain the bridges and its various components. |
| 11 | Ragavan K | List out the various bricks arrangement used in buildings with a neat sketch. |
| 12 | Ragul Raja | Derive the principles the ultimate design moments for a rectangular simply supported slab panel using yield line approach. |
| 13 | Ramkumar M | Explain the factors to be considered while designing brick masonry with respect to stability and lateral supports on the structure. |
| 14 | Ram Kumar N | Enumerate the various loading conditions adopted in brick masonry under different support and loading conditions. |
| 15 | Ranjith A | Write the advantages, disadvantages, uses and applications of design of brick masonry. |
| 16 | Ranjith M | Explain the various principles involved in design of Road bridges. |

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| 17 | Rekha A | Explain the various principles involved in design of Mat Foundation. |
| 18 | Senathipathy B | Explain in detail about Buttress retaining wall. |
| 19 | Shekinah C | Explain in detail about type of soil Pressure acting on retaining wall structures. |
| 20 | Siva T | Discuss in detail about the different types of dam located in Tamilnadu. |
| 21 | Sivasakthi C | Explain in detail about the design of construction of 'Kallanai dam'. |
| 22 | Sonia T | Explain in detail about the design of Over head water tank. |
| 23 | Sophiya T | Explain in detail about the design of Underground Rectangular water tank |
| 24 | Subhash.K | Explain in detail about the forces acting on Hydraulic structures. |
| 25 | Sujitkumar A | Explain in detail about the crack pattern developed on Rectangular slab. |
| 26 | Tamilselvan .S | Explain in detail about the yield line theory. |
| 27 | Tamilvanan V | Derive the expression of yield line theory for circular and triangular RC slab. |
| 28 | Thirumurugan.M | Explain in detail about Gravity retaining wall. |
| 29 | Udayakumar V | Describe the bonds in Brick masonry. |
| 30 | Varun M | Write down the uses of counterfort retaining walls. |
| 31 | Vignesh N | Explain in detail about the design of Rectangular water tank rest on ground. |
| 32 | Vivek P | Derive the Rankine's theory. |
| 33 | Yogadharshini A | Explain the components of stair cases. |
| 34 | Yogeshwaran J | Explain in detail about the dog legged and straight stair cases. |
| 35 | Akasthiya M | Derive the expression of One way and two way slab. |

V.S.B. ENGINEERING COLLEGE, KARUR
Department of Civil Engineering
Academic Year: 2018-2019 (EVEN Semester)

Assignment Questions

Class / Semester: III year / VI Semester B.E. – Civil Engineering “A” Sec

Name of Subject: Structural Analysis II

Name of Faculty member: N.Vigneshwaran

| Sl. No. | Name of the Student | Questions |
|---------|---------------------|--|
| 1 | Adarsh S | Slope deflection, moment distribution and Kani's methods of analysis of indeterminate frames |
| 2 | Akila P | Draw the influence line diagrams for indeterminate beams using Muller-Breslau principle |
| 3 | Aniket M Veneed | Analysis of indeterminate trusses using energy methods |
| 4 | Apshara G | Contrast between the concept of force and displacement methods of analysis of indeterminate structures |
| 5 | Aravindhhan K | Analyze the methods of moment distribution to carry out structural analysis of 2D portal frames with various loads and boundary conditions |
| 6 | Aravinth N | Understand working methodology of Kani's method and compare that with moment distribution method |
| 7 | Assarudeen D | Apply the methods of slope deflection to carry out structural analysis of 2D portal frames with various loads and boundary conditions |
| 8 | Brithiviraj S | Analyze the parabolic arches for the shear forces and bending moments |
| 9 | Chandra Prakash R | Execute secondary stresses in two hinged arches due to temperature and elastic shortening of rib. |
| 10 | Chandru D | Construct the shear forces and bending moments of 2D portal frames with various loads and boundary conditions. |
| 11 | Deepak V | Evaluate the shear forces and bending moments in two-hinged arches using energy methods. |
| 12 | Dharsheni P | Differentiate Static and kinematic Indeterminacy |
| 13 | Dhivakar K | Analyze 2D frame structures for horizontal and vertical loads by approximate methods such as cantilever and substitute frame methods |
| 14 | Dinesh S | Analyze indeterminate structures such as continuous beams, portal frames and trusses using stiffness and flexibility matrix methods. |
| 15 | Dinesh Kumar G | Analyze statically indeterminate structures using stiffness method |
| 16 | Divyadharshini D | Evaluate statically indeterminate structures using flexibility method |
| 17 | Elamezhilan K | Execute 2D frame structure for horizontal and vertical loads by portal method. |
| 18 | Ganesh Prabhu B | Understand and compare the different methods to analyze plane frames. |

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| 19 | Gokul G | Apply the stiffness method to continuous beams, pin-joint frames and portal frames |
| 20 | Gokularaj V | Construct the influence line diagrams for indeterminate beams using Muller-Breslau principle |
| 21 | Gopi P | Apply the Castigliano's second theorem to evaluate forces in members of indeterminate trusses. |
| 22 | Gowri Sankar N | Evaluate the shear force and bending moment at a section of an indeterminate beam under moving load. |
| 23 | Gurunathan S | Name the methods of approximate structural analysis of frames. |
| 24 | Janarthanan V | Why do we perform approximate analysis? |
| 25 | Jayaprakash A | Under which conditions is the Portal method of approximate analysis for building frames |
| 26 | Keerthana R | Under which conditions is the Cantilever method of approximate analysis for building frames best suited |
| 27 | Maharani S | Under which conditions is the substitute frame method of approximate analysis for building frames best suited |
| 28 | Mahesh Babu R | Under which conditions is the Factor method of approximate analysis for building frames best suited |
| 29 | Manoj S | Explain briefly influence lines |
| 30 | Mohamed Asif N | State the Muller-Breslau's principle |
| 31 | Mohamed Azarudeen S | Explain the effect of temperature on two hinged arches |
| 32 | Monisha S | Obtain the condition for absolute maximum bending moment for uniformly distributed live load i) Length more than span ii) Length shorter than the span |
| 33 | Monisha V | Draw the influence lines for various members of a Pratt Truss with parallel chords. |
| 34 | Muruganantham R | Explain the Castigliano's theorem of minimum strain energy. |
| 35 | Muthu Palaniappan G | Explain the terms 'Statically determinate and indeterminate structures |
| 36 | Narmatha K | Explain about Kinematic indeterminate structures with examples. |
| 37 | Naveen S | Analysis of indeterminate trusses using energy methods |
| 38 | Naveena C | Under which conditions is the substitute frame method of approximate analysis for building frames best suited |
| 39 | Kumaresan B | Analyze indeterminate structures such as continuous beams, portal frames and trusses using stiffness and flexibility matrix methods |

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Assignment Questions

Class / Semester: III year / VI Semester B.E. – Civil Engineering “B” Sec

Name of Subject: Design of Reinforced concrete and Brick Masonry Structures

Name of Faculty member: M.Praveena

| Sl. No. | Name of the Student | Questions |
|---------|----------------------|--|
| 1 | Nijanthan C | Slope deflection, moment distribution and Kani's methods of analysis of indeterminate frames |
| 2 | Nikil Chakravarthi S | Draw the influence line diagrams for indeterminate beams using Muller-Breslau principle |
| 3 | Pavithra P | Analysis of indeterminate trusses using energy methods |
| 4 | Poonivalavan K | Contrast between the concept of force and displacement methods of analysis of indeterminate structures |
| 5 | Pooja Berdina D | Analyze the methods of moment distribution to carry out structural analysis of 2D portal frames with various loads and boundary conditions |
| 6 | Pradeep M | Understand working methodology of Kani's method and compare that with moment distribution method |
| 7 | Prakash M | Apply the methods of slope deflection to carry out structural analysis of 2D portal frames with various loads and boundary conditions |
| 8 | Praveen Kumar V | Analyze the parabolic arches for the shear forces and bending moments |
| 9 | Pravin M | Execute secondary stresses in two hinged arches due to temperature and elastic shortening of rib. |
| 10 | Priyadarshini T | Construct the shear forces and bending moments of 2D portal frames with various loads and boundary conditions. |
| 11 | Ragavan K | Evaluate the shear forces and bending moments in two-hinged arches using energy methods. |
| 12 | Ragul Raja | Differentiate Static and kinematic Indeterminacy |
| 13 | Ramkumar M | Analyze 2D frame structures for horizontal and vertical loads by approximate methods such as cantilever and substitute frame methods |
| 14 | Ram Kumar N | Analyze indeterminate structures such as continuous beams, portal frames and trusses using stiffness and flexibility matrix methods. |
| 15 | Ranjith A | Analyze statically indeterminate structures using stiffness method |
| 16 | Ranjith M | Evaluate statically indeterminate structures using flexibility method |

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| 17 | Rekha A | Execute 2D frame structure for horizontal and vertical loads by portal method. |
| 18 | Senathipathy B | Understand and compare the different methods analyze plane frames. |
| 19 | Shekinah C | Apply the stiffness method to continuous beams, pin-joint frames and portal frames |
| 20 | Siva T | Construct the influence line diagrams for indeterminate beams using Muller-Breslau principle |
| 21 | Sivasakthi C | Apply the Castigliano's second theorem to evaluate forces in members of indeterminate trusses. |
| 22 | Sonia T | Evaluate the shear force and bending moment at a section of an indeterminate beam under moving load. |
| 23 | Sophiya T | Name the methods of approximate structural analysis of frames. |
| 24 | Subhash.K | Why do we perform approximate analysis? |
| 25 | Sujitkumar A | Under which conditions is the Portal method of approximate analysis for building frames |
| 26 | Tamilselvan .S | Under which conditions is the Cantilever method of approximate analysis for building frames best suited |
| 27 | Tamilvanan V | Under which conditions is the substitute frame method of approximate analysis for building frames best suited |
| 28 | Thirumurugan.M | Under which conditions is the Factor method of approximate analysis for building frames best suited |
| 29 | Udayakumar V | Explain briefly influence lines |
| 30 | Varun M | State the Muller-Breslau's principle |
| 31 | Vignesh N | Explain the effect of temperature on two hinged arches |
| 32 | Vivek P | Obtain the condition for absolute maximum bending moment for uniformly distributed live load i) Length more than span ii) Length shorter than the span |
| 33 | Yogadharshini A | Draw the influence lines for various members of a Pratt Truss with parallel chords. |
| 34 | Yogeshwaran J | Explain the Castigliano's theorem of minimum strain energy. |
| 35 | Akasthiya M | Explain the terms 'Statically determinate and indeterminate structures |

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DEPARTMENT OF CIVIL ENGINEERING
Academic Year: 2018 -2019 (EVEN Semester)

ASSIGNMENT

Year/Semester & Branch: III Year-'A' section/ VI Semester B.E. Civil Engineering

Subject Name: CE6603-Design of Steel Structures

Faculty Name: Mr. R.Kartheeswaran

| Sl. No. | Name of the Student | Questions |
|---------|---------------------|--|
| 1 | ADARSH S | Explain in detail about history of steel usage in the world. |
| 2 | AKILA P | Explain in detail about types of steel used. |
| 3 | ANIKET M VENEED | Explain in detail about the ancient steel structures in the world. |
| 4 | APSHARA G | Write an article about tallest steel buildings in the world. |
| 5 | ARAVINDHAN K | Write an article about composite materials. |
| 6 | ARAVINTH N | Write an article about ancient steel structures in India. |
| 7 | ASSARUDEEN D | Write an article about the advancements in steel construction. |
| 8 | BRITHIVIRAJ S | Describe the steps used for erection of structural steel. |
| 9 | CHANDRA PRAKASH R | Explain in detail about usage of stainless steel in construction. |
| 10 | CHANDRU D | Write an article about Strengthening of steel structures with fiber-reinforced polymer composites. |
| 11 | DEEPAK V | Write an article about the Developments and advanced applications of concrete-filled steel tubular (CFST) structures |
| 12 | DHARSHENI P | Explain in detail about stress–strain curves for steel. |
| 13 | DHIVAKAR K | Write an article about high-strength steel hybrid composite beams. |
| 14 | DINESH S | Explain in detail about Properties of Structural Steel for Design and Construction of Steel Structures. |
| 15 | DINESH KUMAR G | What are the physical properties of structural steel? |
| 16 | DIVYADHARSHINI D | Explain in detail about the actions as per code. |
| 17 | ELAMEZHILAN K | Explain in detail about the advantages of steel structures over rcc structures. |
| 18 | GANESH PRABHU B | Explain in detail about the parts and usage of the parts in a truss with an example. |
| 19 | GOKUL G | Explain in detail about plate girder and its uses with neat sketch. |
| 20 | GOKULARAJ V | Write an article about Cold Formed Structures. |
| 21 | GOPI P | Write an article about Light gauge steel structures. |
| 22 | GOWRI SANKAR N | Write an article about types of trusses with neat sketch. |
| 23 | GURUNATHAN S | Explain in detail about gantry girder and its uses with neat sketch. |
| 24 | JANARTHANAN V | Explain in detail about purlin and its uses with neat sketch. |

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| 25 | JAYAPRAKASH A | Why are houses in India not built of steel and assembled, unlike other Western methods of building construction? |
| 26 | KEERTHANA R | Explain in detail about 8 famous steel structures in the world. |
| 27 | MAHARANI S | What is meant by INSDAG and what is the role of this in the society? |
| 28 | MAHESH BABU R | How INSDAG will help the civil engineering students and on what basis? Explain. |
| 29 | MANOJ S | Which is the first steel building in the world? Explain in detail about the building. |
| 30 | MOHAMED ASIF N | Which is the longest steel bridge in India? Explain with neat sketch. |
| 31 | MOHAMED AZARUDEEN S | Which is the longest steel bridge in Asia? Explain with neat sketch. |
| 32 | MONISHA S | Which is the longest steel bridge in the world? Explain with neat sketch. |
| 33 | MONISHA V | Explain in detail about top 10 steel bridges in the world. |
| 34 | MURUGANANTHAM R | Explain in detail about top 10 steel bridges in Asia. |
| 35 | MUTHU PALANIAPPAN G | Explain in detail about top 10 steel bridges in India. |
| 36 | NARMATHA K | Explain in detail about Pampan Bridge with neat sketch and history |
| 37 | NAVEEN S | Explain in detail about the types of connections available in steel. |
| 38 | NAVEENA C | Explain in detail about the process of riveted connection. |
| 39 | KUMARESAN B | Explain in detail about the types of bolted connection with neat sketch. |

V.S.B. ENGINEERING COLLEGE, KARUR
DEPARTMENT OF CIVIL ENGINEERING
Academic Year: 2018 -2019 (EVEN Semester)

ASSIGNMENT

Year/Semester & Branch: III Year-'B' section/ VI Semester B.E. Civil Engineering

Subject Name: CE6603-Design of Steel Structures

Faculty Name: Mr. R.Kartheeswaran

| Sl. No. | Name of the Student | Questions |
|---------|----------------------|--|
| 1 | Nijanthan C | Explain in detail about history of steel usage in the world. |
| 2 | Nikil Chakravarthi S | Explain in detail about types of steel used. |
| 3 | Pavithra P | Explain in detail about the ancient steel structures in the world. |
| 4 | Ponnivalavan K | Write an article about tallest steel buildings in the world. |
| 5 | Pooja Berdina D | Write an article about composite materials. |
| 6 | Pradeep M | Write an article about ancient steel structures in India. |
| 7 | Prakash M | Write an article about the advancements in steel construction. |
| 8 | Praveen Kumar V | Describe the steps used for erection of structural steel. |
| 9 | Pravin M | Explain in detail about usage of stainless steel in construction. |
| 10 | Priyadarshini T | Write an article about Strengthening of steel structures with fiber-reinforced polymer composites. |
| 11 | Ragavan K | Write an article about the Developments and advanced applications of concrete-filled steel tubular (CFST) structures |
| 12 | Ragul Raja A | Explain in detail about stress–strain curves for steel. |
| 13 | Ramkumar M | Write an article about high-strength steel hybrid composite beams. |
| 14 | Ram Kumar N | Explain in detail about Properties of Structural Steel for Design and Construction of Steel Structures. |
| 15 | Ranjith A | What are the physical properties of structural steel? |
| 16 | Ranjith M | Explain in detail about the actions as per code. |
| 17 | Rekha A | Explain in detail about the advantages of steel structures over rcc structures. |
| 18 | Senathipathy B | Explain in detail about the parts and usage of the parts in a truss with an example. |
| 19 | Shekinah C | Explain in detail about plate girder and its uses with neat sketch. |
| 20 | Siva T | Write an article about Cold Formed Structures. |
| 21 | Sivasakthi C | Write an article about Light gauge steel structures. |
| 22 | Sonia T | Write an article about types of trusses with neat sketch. |
| 23 | Sophiya T | Explain in detail about gantry girder and its uses with neat sketch. |
| 24 | Subhash.K | Explain in detail about purlin and its uses with neat sketch. |

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| 25 | Sujitkumar A | Why are houses in India not built of steel and assembled, unlike other Western methods of building construction? |
| 26 | Tamilselvan .S | Explain in detail about 8 famous steel structures in the world. |
| 27 | Tamilvanan V | What is meant by INSDAG and what is the role of this in the society? |
| 28 | Thirumurugan.M | How INSDAG will help the civil engineering students and on what basis? Explain. |
| 29 | Udayakumar V | Which is the first steel building in the world? Explain in detail about the building. |
| 30 | Varun M | Which is the longest steel bridge in India? Explain with neat sketch. |
| 31 | Vignesh N | Which is the longest steel bridge in Asia? Explain with neat sketch. |
| 32 | Vivek P | Which is the longest steel bridge in the world? Explain with neat sketch. |
| 33 | Yogadharshini A | Explain in detail about top 10 steel bridges in the world. |
| 34 | Yogeshwaran J | Explain in detail about top 10 steel bridges in Asia. |
| 35 | Akasthiya M | Explain in detail about Pampan Bridge with neat sketch and history |

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Department of Civil Engineering
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Assignment Questions

Class / Semester: III year / VI Semester B.E. – Civil Engineering “A” Sec

Name of Subject: Railways, Airports & Harbour Engineering

Name of Faculty member: B.Yugesh Kumar

| Sl. No. | Name of the Student | Questions |
|---------|---------------------|---|
| 1 | Adarsh S | What are the ideal requirements of a permanent way? |
| 2 | Akila P | Explain the different surveys involved in fixing the alignment of railway tracks. |
| 3 | Aniket M Veneed | Explain the modern methods of runways for track alignment. |
| 4 | Apshara G | Discuss the functions and requirements of various elements of railway permanent way. |
| 5 | Aravindhana K | Explain the merits and demerits of rail transport. |
| 6 | Aravindhana N | What are the functions of rail fixtures and fastenings? |
| 7 | Assarudeen D | How are railway stations classified? Explain features of each station. |
| 8 | Brithiviraj S | What is a marshalling yard? Explain with neat sketch. |
| 9 | Chandra Prakash R | What are the objects of signaling? Explain the working and use of reception signal and departure signal. |
| 10 | Chandru D | What are the different systems of aircraft parking? |
| 11 | Deepak V | Discuss in detail the various points to be considered for selection of site for an airport. |
| 12 | Dharsheni P | Briefly explain about the airport master plan. |
| 13 | Dhivakar K | Explain the role of wind rose diagram in the orientation of runways. |
| 14 | Dinesh S | Explain the elements of airport lighting with neat sketches. |
| 15 | Dinesh Kumar G | Explain the runway marking system. |
| 16 | Divyadharshini D | Discuss the importance of air traffic control and list the various aids needed for enroute air traffic control. |
| 17 | Elamezhilan K | What are the requirements of a good port? |
| 18 | Ganesh Prabhu B | Distinguish between wet docks and dry docks. Describe the operation of the various dry docks with sketches. |
| 19 | Gokul G | Explain about the different types of break water with the sketches. |
| 20 | Gokularaj V | Explain the salient features of coastal regulation zone notification 2011. |
| 21 | Gopi P | Write descriptive notes on mooring and mooring |

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| | | accessories. |
| 22 | Gowri Sankar N | When and where the soil suitability analysis is carried out and explains |
| 23 | Gurunathan S | Draw a neat dimensional sketch of the permanent way cross section and explain the functions of various components. |
| 24 | Janarthanan V | Explain in brief: 1. Clear Zone. 2. Approach zone 3. Turning zone. 4. Buffer zone. |
| 25 | Jayaprakash A | Describe the importance of runway lighting. Explain threshold lighting with the help of sketches. |
| 26 | Keerthana R | Explain the various Navigational aids both fixed and floating. b) Draw a neat sketch of a typical harbour and indicate the salient components |
| 27 | Maharani S | Distinguish between wet docks and dry docks. Describe the operation of any two dry docks with sketches. |
| 28 | Mahesh Babu R | What are the factors to be considered in selecting the sleeper? |
| 29 | Manoj S | Define gradient and super elevation; List out its types and explain clearly. |
| 30 | Mohamed Asif N | Compare and contrast the different type of sleepers used in Indian railways. |
| 31 | Mohamed Azarudeen S | Explain the different surveys involved in fixing the alignment of railway tracks |
| 32 | Monisha S | Explain in detail the importance of Indian Railways in the National Development in terms of economic, social and political contributions |
| 33 | Monisha V | Explain in detail about (a) Ballast less Track (b) Negative super elevation. (c) Widening of gauge (d) Grade Compensation |
| 34 | Muruganantham R | Design and draw a neat sketch of permanent way cross section and explain the functions of its components. |
| 35 | Muthu Palaniappan G | List out the methods used for stabilization of tracks in poor soil. |
| 36 | Narmatha K | When and where should a tunnel be provided and explain the methods of tunnel construction in soft ground. |
| 37 | Naveen S | Classify the advantages and disadvantages of conventional maintenance and modern maintenance techniques |
| 38 | Naveena C | Explain in detail when a branch line called as siding and the circumstances wayside station to be selected |
| 39 | Kumaresan B | What is a master plan? Explain the recommendation by ICAO & FAA master plan in detail. |

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Name of Subject: Railways, Airports & Harbour Engineering
Name of Faculty member: B.Yugesh Kumar

| Sl. No. | Name of the Student | Questions |
|---------|----------------------|---|
| 1 | Nijanathan C | What are the ideal requirements of a permanent way? |
| 2 | Nikil Chakravarthi S | Explain the different surveys involved in fixing the alignment of railway tracks. |
| 3 | Pavithra P | Explain the modern methods of runways for track alignment. |
| 4 | Poonivalavan K | Discuss the functions and requirements of various elements of railway permanent way. |
| 5 | Pooja Berdina D | Explain the merits and demerits of rail transport. |
| 6 | Pradeep M | What the functions of rail fixtures and fastenings? |
| 7 | Prakash M | How are railway station classified? Explain features of each station. |
| 8 | Praveen Kumar V | What is a marshalling yard? Explain with neat sketch. |
| 9 | Pravin M | What are the objects of signaling? Explain the working and use of reception signal and departure signal. |
| 10 | Priyadarshini T | What are the different systems of aircraft parking? |
| 11 | Ragavan K | Discuss in details the various points to be considered for selection of site for an airport. |
| 12 | Ragul Raja | Briefly explain about the airport master plan. |
| 13 | Ramkumar M | Explain the role of wind rose diagram in the orientation of runways. |
| 14 | Ram Kumar N | Explain the elements of airport lighting with neat sketches. |
| 15 | Ranjith A | Explain the runway marking system. |
| 16 | Ranjith M | Discuss the importance of air traffic control and list the various aids needed for enroute air traffic control. |
| 17 | Rekha A | What are the requirements of a good port? |
| 18 | Senathipathy B | Distinguish between wet docks and dry docks. Describe the operation of the various dry docks with sketches. |
| 19 | Shekinah C | Explain about the different types of break water with the sketches. |
| 20 | Siva T | Explain the salient features of coastal regulation zone notification 2011. |
| 21 | Sivasakthi C | Write descriptive notes on mooring and mooring accessories. |

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| 22 | Sonia T | When and where the soil suitability analysis is carried out and explains |
| 23 | Sophiya T | Draw a neat dimensional sketch of the permanent way cross section and explain the functions of various components. |
| 24 | Subhash.K | Explain in brief: 1. Clear Zone. 2. Approach zone 3. Turning zone. 4. Buffer zone. |
| 25 | Sujitkumar A | Describe the importance of runway lighting. Explain threshold lighting with the help of sketches. |
| 26 | Tamilselvan .S | Explain the various Navigational aids both fixed and floating. b) Draw a neat sketch of a typical harbour and indicate the salient components |
| 27 | Tamilvanan V | Distinguish between wet docks and dry docks. Describe the operation of any two dry docks with sketches. |
| 28 | Thirumurugan.M | What are the factors to be considered in selecting the sleeper? |
| 29 | Udayakumar V | Define gradient and super elevation; List out its types and explain clearly. |
| 30 | Varun M | Compare and contrast the different type of sleepers used in Indian railways. |
| 31 | Vignesh N | Explain the different surveys involved in fixing the alignment of railway tracks |
| 32 | Vivek P | Explain in detail the importance of Indian Railways in the National Development in terms of economic, social and political contributions |
| 33 | Yogadharshini A | Explain in detail about (a) Ballast less Track (b) Negative super elevation. (c) Widening of gauge (d) Grade Compensation |
| 34 | Yogeshwaran J | Design and draw a neat sketch of permanent way cross section and explain the functions of its components. |
| 35 | Akasthiya M | When and where should a tunnel be provided and explain the methods of tunnel construction in soft ground. |

V.S.B. ENGINEERING COLLEGE, KARUR
Department of Civil Engineering
Academic Year: 2018-2019 (EVEN Semester)

Assignment Questions

Class / Semester: III year / VI Semester B.E. – Civil Engineering “A” Sec

Name of Subject: Environmental Engineering II

Name of Faculty member: Dr.S.Anand Kumar Varma

| Sl. No. | Name of the Student | Questions |
|---------|---------------------|---|
| 1 | Adarsh S | Explain the need and necessity of proper sanitation for south India town. |
| 2 | Akila P | With the help of a neat sketch, bring out the pattern of variation of sewage flow in an Indian city. |
| 3 | Aniket M Veneed | What are the advanced software used in environmental engineering. |
| 4 | Apshara G | Write a note on the sewer ventilation and its application. |
| 5 | Aravindhyan K | Briefly describe the method of treating the waste water from paper and pulp industry. |
| 6 | Aravinth N | What do you mean by waste water sludge? Write the principles and importance of aerobic and anaerobic digestions treatment process followed by TWAD Board. |
| 7 | Assarudeen D | Give an account of the diseases caused by environmental health hazards and their etiology. |
| 8 | Brithiviraj S | Explain chemical oxidation and wet air oxidation. And its application. |
| 9 | Chandra Prakash R | How phosphorous can be removed from waste water. |
| 10 | Chandru D | Discuss the various waste minimization techniques. |
| 11 | Deepak V | Explain the concept of sloughing of bio-film in trickling filter. |
| 12 | Dharsheni P | Explain the terms “Effluent Standards” and “MINAS”. |
| 13 | Dhivakar K | Explain the concept of zero discharge and its application. |
| 14 | Dinesh S | Write a detailed note on photo-catalysis process and its application. |
| 15 | Dinesh Kumar G | What is CTEP? State whether it can be used to treat different kind of waste water. |
| 16 | Divyadharshini D | Explain the concept of pyrolysis and its application. |
| 17 | Elamezhilan K | Write a note on the Bio gas recovery and give example. |
| 18 | Ganesh Prabhu B | What are the real world problems of generation of industrial waste and what will be the solution? |
| 19 | Gokul G | Explain the process carried out in TWAD board sewage treatment plant. |

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| 20 | Gokularaj V | Write about the sources, characteristics and treatment of tannery. |
| 21 | Gopi P | Write the short notes about TNPCB & CPCB. |
| 22 | Gowri Sankar N | Write the case study about resource depletion and suggestions for the alternatives. |
| 23 | Gurunathan S | Visualize a Case Study of Bopal accident in fertilizer industry |
| 24 | Janarthanan V | Write about the sources, characteristics and treatment of tannery. |
| 25 | Jayaprakash A | Write about the sources, characteristics and treatment of paper industries. |
| 26 | Keerthana R | Write the effects of stream by waste water disposal. |
| 27 | Maharani S | Write UNFCCC about reducing green house gases emissions. Recently, USA and China also signed the agreement as both contribute nearly 40% of total world's GHG's emissions. |
| 28 | Mahesh Babu R | Write about the sources, characteristics and treatment of sugar industries in your nearby town. |
| 29 | Manoj S | Write the Case Study of Mumbai: Decentralized Solid Waste Management. |
| 30 | Mohamed Asif N | Pen your views on the different treatment technology available. |
| 31 | Mohamed Azarudeen S | Write the case study about effects of industrial effluents on kavery river in Trichy District. |
| 32 | Monisha S | Write the short notes about TWAD board. |
| 33 | Monisha V | Write the case study about effects of industrial effluents on Noyyal River. |
| 34 | Muruganantham R | Write the case study about past Environmental disasters |
| 35 | Muthu Palaniappan G | Explain about UNEP and other related organizations which deals with environmental issues |
| 36 | Narmatha K | Write about the sources, characteristics and treatment of textile industries. |
| 37 | Naveen S | Write about the sources, characteristics and treatment of tannery. |
| 38 | Naveena C | Write the Case Study of Mumbai: Decentralized Solid Waste Management. |
| 39 | Kumaresan B | Explain the need and necessity of proper sanitation for south India town. |

V.S.B. ENGINEERING COLLEGE, KARUR
Department of Civil Engineering
Academic Year: 2018-2019 (Even Semester)
Assignment Questions

Class / Semester: III year / VI semester B.E., Civil Engineering 'B' Section

Name of Subject: Environmental Engineering II

Name of Faculty member: V.Sudha.

| Sl. No. | Name of the Student | ASSIGNMENT QUESTIONS |
|----------------|----------------------------|---|
| 1 | NIJANTHAN C | Explain the need and necessity of proper sanitation for south India town. |
| 2 | NIKIL CHAKRAVARTHI S | With the help of a neat sketch, bring out the pattern of variation of sewage flow in an Indian city. |
| 3 | PAVITHRA P | What are the advanced software used in environmental engineering. |
| 4 | POONIVALAVAN K | Write a note on the sewer ventilation and its application. |
| 5 | POOJA BERDINA D | Briefly describe the method of treating the waste water from paper and pulp industry. |
| 6 | PRADEEP M | What do you mean by waste water sludge? Write the principles and importance of aerobic and anaerobic digestions treatment process followed by TWAD Board. |
| 7 | PRAKASH M | Give an account of the diseases caused by environmental health hazards and their etiology. |
| 8 | PRAVEEN KUMAR V | Explain chemical oxidation and wet air oxidation. And its application. |
| 9 | PRAVIN M | How phosphorous can be removed from waste water. |
| 10 | PRIYADARSHINI T | Discuss the various waste minimization techniques. |
| 11 | RAGAVAN K | Explain the concept of sloughing of bio-film in trickling filter. |
| 12 | RAGUL RAJA A | Explain the terms "Effluent Standards" and "MINAS". |
| 13 | RAMKUMAR M | Explain the concept of zero discharge and its application. |
| 14 | RAM KUMAR N | Write a detailed note on photo-catalysis process and its application. |
| 15 | RANJITH A | What is CTEP? State whether it can be used to treat different kind of waste water. |
| 16 | RANJITH M | Explain the concept of pyrolysis and its application. |
| 17 | REKHA A | Write a note on the Bio gas recovery and give example. |
| 18 | SENATHIPATHY B | What are the real world problems of generation of |

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| | | industrial waste and what will be the solution? |
| 19 | SHEKINAH C | Explain the process carried out in TWAD board sewage treatment plant. |
| 20 | SIVA T | Write about the sources, characteristics and treatment of tannery. |
| 21 | SIVASAKTHI C | Write the short notes about TNPCB & CPCB. |
| 22 | SONIA T | Write the case study about resource depletion and suggestions for the alternatives. |
| 23 | SOPHIYA T | Visualize a Case Study of Bopal accident in fertilizer industry |
| 24 | SUBHASH.K | Write about the sources, characteristics and treatment of tannery. |
| 25 | SUJITKUMAR A | Write about the sources, characteristics and treatment of paper industries. |
| 26 | TAMILSELVAN .S | Write the effects of stream by waste water disposal. |
| 27 | TAMILVANAN V | Write UNFCCC about reducing green house gases emissions. Recently, USA and China also signed the agreement as both contribute nearly 40% of total world's GHG's emissions. |
| 28 | THIRUMURUGAN.M | Write about the sources, characteristics and treatment of sugar industries in your nearby town. |
| 29 | UDAYAKUMAR V | Write the Case Study of Mumbai: Decentralized Solid Waste Management. |
| 30 | VARUN M | Pen your views on the different treatment technology available. |
| 31 | VIGNESH N | Write the case study about effects of industrial effluents on kavery river in Trichy District. |
| 32 | VIVEK P | Write the short notes about TWAD board. |
| 33 | YOGADHARSHINI A | Write the case study about effects of industrial effluents on Noyyal River. |
| 34 | YOGESHWARAN J | Write the case study about past Environmental disasters |
| 35 | KESAVAN R | Explain about UNEP and other related organizations which deals with environmental issues |
| 36 | AKASTHIYA | Write about the sources, characteristics and treatment of textile industries. |

V.S.B. ENGINEERING COLLEGE, KARUR
Department of Civil Engineering
Academic Year: 2018-2019 (EVEN Semester)

Assignment Questions

Class / Semester: III year / VI Semester B.E. – Civil Engineering “A” Sec

Name of Subject: Concrete Technology

Name of Faculty member: Ms.M.Aarthi

| Sl. No. | Name of the Student | Questions |
|---------|---------------------|--|
| 1 | Adarsh S | Explain with the help of a neat sketch, the dry process of manufacture of ordinary cement. |
| 2 | Akila P | Explain in details various stages of manufacturing of cement concrete. |
| 3 | Aniket M Veneed | List the various tests conducted on coarse aggregate indicating the property being tested. |
| 4 | Apshara G | List the various types of cement indicating their use for different applications. |
| 5 | Aravindhana K | Discuss the various methods of proportioning. |
| 6 | Aravindh N | Explain in detail, the step by step procedure of IRC 44 method of concrete mix design. |
| 7 | Assarudeen D | What are the parameters to be considered while designing a concrete? |
| 8 | Brithiviraj S | Compare the relative merits and demerits of various workability tests. |
| 9 | Chandra Prakash R | What are the various factors which affecting the workability of concrete? |
| 10 | Chandru D | Discuss maturity of concrete? How is it measured? What are its practical uses in the concrete industry? |
| 11 | Deepak V | Describe the importance of curing? When should it be commenced? For how long should it be continued? |
| 12 | Dharsheni P | Define the term workability. What are the various tests conducted to determine the Workability of concrete and explain them. |
| 13 | Dhivakar K | Explain the procedure for DOE method |
| 14 | Dinesh S | Compare ACI and IS method of concrete mix design. |
| 15 | Dinesh Kumar G | What are the different chemicals used to obtain the desired colours on a concrete surface? |
| 16 | Divyadharshini D | List the corrosion inhibiting agents and briefly explain any one of them. |
| 17 | Elamezhilan K | Write explanatory notes on (a) uniform grading (b) gap grading (c) continuous grading. |
| 18 | Ganesh Prabhu B | How does increasing the quality of water influence the properties of fresh and hardened concrete? |
| 19 | Gokul G | What is the significant difference between mixture proportioning of normal weight and light weight |

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| | | concrete? |
| 20 | Gokularaj V | Discuss the importance and effects of water absorption and moisture content of lightweight aggregate concrete. |
| 21 | Gopi P | Discuss the environmental impact of normal-weight and lightweight concrete. |
| 22 | Gowri Sankar N | List the aspects of HPC that are related to strength and durability separately. |
| 23 | Gurunathan S | What are the important approaches for achieving durable concrete? |
| 24 | Janarthanan V | What are the methods of transportation of fluids and gases which aid permeation in concrete? |
| 25 | Jayaprakash A | How does the porous structure of rice husk as influence the properties of fresh/hardened concrete? |
| 26 | Keerthana R | What aspects are to be investigated for high performance in complex exposure conditions? |
| 27 | Maharani S | Describe the various applications of high-strength concrete in India. |
| 28 | Mahesh Babu R | Briefly describe the following tests on aggregate: specific gravity test and impact test. |
| 29 | Manoj S | Discuss briefly about the accelerators and retarders. |
| 30 | Mohamed Asif N | What is a fly ash? Write its uses, characteristics and classification? |
| 31 | Mohamed Azarudeen S | Write the effect of silica fume on fresh and hardened concrete. |
| 32 | Monisha S | Explicate in detail about the Ground granulated blast furnace slag and Effects of GGBS on fresh concrete and harden concrete. |
| 33 | Monisha V | Cite water proofers and their effects. |
| 34 | Muruganantham R | Build your idea about the bleeding in concrete? Write its Effects on concrete. How will you test for bleeding in concrete? |
| 35 | Muthu Palaniappan G | Discuss in detail about Segregation in concrete technology. Write its conditions favorable and remedies for segregation in concrete. |
| 36 | Narmatha K | Organize are the properties of hardened concrete? List the tests conducted on hardened concrete. |
| 37 | Naveen S | How does the porous structure of rice husk as influence the properties of fresh/hardened concrete? |
| 38 | Naveena C | What is a fly ash? Write its uses, characteristics and classification? |
| 39 | Kumaresan B | What are the different chemicals used to obtained the desired colours on a concrete surface? |

V.S.B. ENGINEERING COLLEGE, KARUR
Department of Civil Engineering
Academic Year: 2018-2019 (EVEN Semester)
Assignment Questions

Class / Semester: III year / VI Semester B.E. – Civil Engineering ‘B’ Section

Name of Subject: Concrete Technology

Name of Faculty member: Mr.K.Rajkumar

| Sl. No. | NAME OF THE STUDENT | Questions |
|---------|----------------------|--|
| 1. | Nijanthan C | Explain with the help of a neat sketch, the dry process of manufacture of ordinary cement. |
| 2. | Nikil Chakravarthi S | Explain in details various stages of manufacturing of cement concrete. |
| 3. | Pavithra P | List the various tests conducted on coarse aggregate indicating the property being tested. |
| 4. | Ponnivalavan K | List the various types of cement indicating their use for different applications. |
| 5. | Pooja Berdina D | Discuss the various methods of proportioning. |
| 6. | Pradeep M | Explain in detail, the step by step procedure of IRC 44 method of concrete mix design. |
| 7. | Prakash M | What are the parameters to be considered while designing a concrete? |
| 8. | Praveen Kumar V | Compare the relative merits and demerits of various workability tests. |
| 9. | Pravin M | What are the various factors which affecting the workability of concrete? |
| 10. | Priyadarshini T | Discuss maturity of concrete? How is it measured? What are its practical uses in the concrete industry? |
| 11. | Ragavan K | Describe the importance of curing? When should it be commenced? For how long should it be continued? |
| 12. | Ragul Raja A | Define the term workability. What are the various tests conducted to determine the Workability of concrete and explain them. |
| 13. | Ramkumar M | Explain the procedure for DOE method |
| 14. | Ram Kumar N | Compare ACI and IS method of concrete mix design. |
| 15. | Ranjith A | What are the different chemicals used to obtained the desired colours on a concrete surface? |
| 16. | Ranjith M | List the corrosion inhibiting agents and briefly explain any one of them. |
| 17. | Rekha A | Write explanatory notes on (a) uniform grading (b) gap grading (c) continuous grading. |
| 18. | Senathipathy B | How does increasing the quality of water influence the properties of fresh and hardened concrete? |
| 19. | Shekinah C | What is the significant difference between mixture proportioning of normal weight and light weight concrete? |
| 20. | Siva T | Discuss the importance and effects of water absorption and moisture content of lightweight aggregate concrete. |

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| 21. | Sivasakthi C | Discuss the environmental impact of normal-weight and lightweight concrete. |
| 22. | Sonia T | List the aspects of HPC that are related to strength and durability separately. |
| 23. | Sophiya T | What are the important approaches for achieving durable concrete? |
| 24. | Subhash.K | What are the methods of transportation of fluids and gases which aid permeation in concrete? |
| 25. | Sujitkumar A | How does the porous structure of rice husk as influence the properties of fresh/hardened concrete? |
| 26. | Tamilselvan .S | What aspects are to be investigated for high performance in complex exposure conditions? |
| 27. | Tamilvanan V | Describe the various applications of high-strength concrete in India. |
| 28. | Thirumurugan.M | Briefly describe the following tests on aggregate: specific gravity test and impact test. |
| 29. | Udayakumar V | Discuss briefly about the accelerators and retarders. |
| 30. | Varun M | What is a fly ash? Write its uses, characteristics and classification? |
| 31. | Vignesh N | Write the effect of silica fume on fresh and hardened concrete. |
| 32. | Vivek P | Explicate in detail about the Ground granulated blast furnace slag and Effects of GGBS on fresh concrete and hardened concrete. |
| 33. | Yogadharshini A | Cite water proofers and their effects. |
| 34. | Yogeshwaran J | Build your idea about the bleeding in concrete? Write its Effects on concrete. How will you test for bleeding in concrete? |
| 35. | Akasthiya M | Organize are the properties of hardened concrete? List the tests conducted on hardened concrete. |