

Knowledge Assessment (Written Test)

Total marks: 180 marks
Each question carries 4 marks

Duration: 90 minutes

Infrastructure: Classroom, Benches, Pens, pencils

CON/N1004 Apply prime coat and tack coat manually to the respective road layers

- 1 The layer of pavement on which the prime coat is applied?
 - a.subgrade
 - b.sub base
 - c.Granular base
 - d.Bitumin wearing coat
- 2 The layer of pavement on which tack coat is applied?
 - a.Subgrade
 - B.granular subbase
 - C.bituminous surface
 - d.primed granular surface
- 3 which one of following hand tool used in application of prime coat
 - a.heissan cloth
 - b.Pressure hand sprayers
 - c.Paver machine
 - d.None of the above
- 4 What material is used in prime coat
 - a.cationic Bitumen emulsion
 - b.Low viscosity paving bitumen
 - c.cutback bitumen
 - d.all of the above
- 5 What is desired depth of penetration to be achieved in prime coat
 - a.2-3 mm
 - b.50-75 mm
 - c.8- 10 mm
 - d.None of the above
- 6 Which of following equipment is used for applying prime coat
 - a.Pressure distributor
 - b.towed pressure sprayer
 - c.Hand pressure sprayer
 - d.all of the above
- 7 What is recommended curing period for prime coat after which next bituminous layer should be laid
 - a.8 hrs
 - b.7 days
 - c.24 hrs
 - d.4 hrs
- 8 The prime coat is necessary because of following reasons
 - a.Coats and bonds loose mineral particles of granular surface
 - b.waterproofs the surface
 - c.Provides adhesion or bond between the granular base and bituminous layers
 - d.All the above

CON/N1005: Prepare and spread asphalt manually for construction of binding course/ wearing course

- 9 What is recommended mixing temperature range for different bituminous mix
 - a.140-170
 - b.250-300
 - c.60-80
 - d.None of the above
- 10 What should be minimum rolling temperature range for different grade of bitumin Mix
 - a.80-100
 - b.150-170
 - c.40-60
 - d.None of the above
- 11 Which one of following tools is used for laying bitumin mix manually
 - a.shovel

- b.rakers
 - c.wheels barrows
 - d.all the above
- 12 Which one of following rollers is used for compaction of bituminous layer in pavement
- a.sheep footed roller
 - b.static roller
 - c.Pneumatic tryred roller
 - d.None of the above
- 13 Laying of bitumen shall be done if water is suspended on surface
- Yes
- No
- 14 Which hand tool is used to check the surface irregularity of pavement surface
- a.straightedge
 - b.plumb bob
 - c.water level
 - d.All the above
- 15 Which tool/Equipment is used to boil bitumen in case of manual pavement laying
- a.bitumin boiler
 - b.Hammer and cutter
 - c.heating tray
 - d.All of the above
- 16 How the batching of aggregate is maintained in case of manual preparation of bitumin mix
- a.Gauge box
 - b.container
 - c.Wheel barrow
 - d.None of the above

CON/N1006: Shift and place pipelines for drainage

- 17 what should be width of trench for laying pipes
- a. Generally 150 mm all around the pipe
 - b.no extra space required
 - c.both a & B
 - d.None of the above
- 18 What is caulking width between two pipes in case of collar joint
- a.50- 60mm
 - b.13-20 mm
 - c.2-3 mm
 - d. None of the above
- 19 What are caulking materials to join two pipes in case of collar joints
- a.cement : sand mortar
 - b.concrete
 - c. Water proofing compound
 - d.None of the above
- 20 How is pipe lowered into foundation trench
- a. By chain and pulley arrangement
 - b. chain and pulley with shear slings
 - c.by pushing it by hand
 - d. None of the above
- 21 Which of following is rigid joint used in pipe joining
- a.socket and spigot joint
 - b.collar joint
 - c.flush joint
 - d.All the above
- 22 In case of joining pipes , Rubber ring joints makes it easier to force socket into spigot
- Yes
- No
- 23 Slings should be used threaded through pipe bore while lifting or shifting pipes
- Yes
- No
- 24 The laying of pipe on prepared foundation shall start from inlet to outlet
- yes
- No

CON/N8001: Work effectively in a team to meet expected outcomes

- 25 which of the following points shall be taken care for effective communication
- a. Clarity
 - b. Emphasize important points
 - c. Eye contact
 - d. All of the above
- 26 Which of the following is the best method to review the quality of work done?
- a. By taking feedback from manufacturer
 - b. By taking feedback from top management
 - c. By taking feedback from juniors
 - d. By taking feedback from reporting senior
- 27 At the start of the work, the Pavement layer must inform his assistant regarding
- a. The nature of the engineer-in-charge
 - b. The weather forecast
 - c. The description of work and technique to be used
 - d. The likely punishment for not completing in time
- 28 What should be done if there is material shortage while executing a task
- a. Wait till other team members to escalate
 - b. Use damaged materials and complete the task
 - c. Address it to reporting senior
 - d. Inform to the higher management
- 29 Which of the following is considered as a negative development for a team
- a. Cooperation
 - b. Mutual understanding
 - c. Communication gap
 - d. Helping each other
- 30 As a team member, what best can be done after the assigned work is completed?
- a. Mutual understanding
 - b. Hand it over to the customer and leave
 - c. Help team members to complete their task as well
 - d. Ask for another task from the customer
- 31 What should be done if there is lack of coordination found within the team?
- a. Do not bother about others opinion and argue with them
 - b. Discuss with team member and resolve the conflict
 - c. Stop the work and protest with the team member
 - d. Escalate it to the management and wait for the action

CON/N8002: Plan and organize work to meet expected Outcomes

- 32 Which Document is essential to understand the sequence of job?
- a. Method statement
 - b. Job specification
 - c. Project tracker
 - d. Progress report
- 33 Which of the following document is essential to understand the timelines to complete the targets?
- a. Work schedule
 - b. Technical specifications
 - c. Work permit
 - d. Completion report
- 34 What is the first thing a pavement layer should do for starting a new work?
- a. Collect the materials
 - b. Collect the tools
 - c. Discuss and plan the details of the work with his supervisor
 - d. Discuss and plan the details of the work with the client
- 35 Which of following manpower whom should pavement layer report to for work.
- a. Foreman -Roads &runways
 - b. Foreman-Rigging
 - c. Supervisor-site EHS
 - d. Foreman-Reinforcement
- 36 Which of the following is the manpower who can assist a pavement layer
- a. Supervisor- Roadways and Runways
 - b. Assistant pavement layer

- c. Assistant bar bender
 - d. Foreman- Roadways & Runways
- 37 Which one of following is not responsibility of pavement layer
- a. cutting and bending of reinforcement bar
 - b. Apply prime and tack coat on pavement courses
 - c. constructing masonry wall
 - d. Operating vibratory tandem roller
- 38 Which of the following statement you feel correct while engaging tools?
- a. Engage damaged tool to save cost
 - b. Always engage new and branded tools
 - c. Engage right tool for the right job
 - d. None of The above

CON9001 Work according to personal health, safety and environment protocol at construction site

- 39 Whom should employee report in case of accident at site
- a. Store representatives
 - b. Plant and machinery representative
 - c. Accounts representatives
 - d. EHS Representatives
- 40 Which of the following safety training is mandatory for workers before entering a new site?
- a. Induction training
 - b. First aid training
 - c. Refresher training
 - d. Specific training
- 41 Mock drills are conducted to enable Employees to know the response system in case of emergencies
- TRUE
 - FALSE
- 42 Which of the following PPE must be worn while hot paving work
- a. Safety shoes
 - b. Reflective jacket
 - c. Hand gloves
 - d. All the above
- 43 Which of the following colour code is not used in safety signage?
- a. Red
 - b. Grey
 - c. Blue
 - d. Yellow
- 44 Where should hazardous waste be dumped?
- a. Mixed and dumped with other waste
 - b. Returned to the store
 - c. In a designated waste yard
 - d. Let it lie in work place
- 45 Which of the following statement is correct while handling materials manually?
- a. Keep the load away from your body
 - b. Keep your back straight at all times
 - c. Keep your feet as close as possible
 - d. Twist your body while carrying load

2 Marks

