

SELECTION FOR THE POST OF JE/WORKS AGAINST 25% PR QUOTA IN ENGG. DEPARTMENT

56

UNDER SR.DEN/C/SDAH

Full marks :- 100

Date :- 25/03/22

Duration :- 02 hours

Instruction :-

1. Each question carries one marks. There is no negative mark for wrong answer.
2. Question no.101 to 110 are Rajbhasa Question are optional.
3. Any type of Cutting, overwriting, erasing or alteration of answer will not be accepted. Zero marks will be given for having correction and overwriting answer.
4. Candidates use only blue or black ball pen only.
5. All questions are multiple choice.
6. Candidates may use either blue or black ball pen.
7. Candidates have to attempt 100 questions out of 110.



QUESTIONS NOs 1 to 110

1. A good building stone should not absorb water more than
a) 5% b) 10% c) 15% d) 20%
2. Which flooring is recommended for important rooms and bathrooms in Hospitals and dispensaries as per IRWM.
a) Vitrified flooring b) Mosaic or Terrazzo or non-slippery ceramic tiles. c) Granite flooring
d) PVC flooring
3. Crushing strength of a good building stone should be more than
a) 50 MPa b) 100 MPa , c) 150 MPa , d) 200 MPa
4. According to the grain size distribution, the grain size of the medium sand should be
a) 2.0 mm to 4.75 mm b) 0.075 mm to 0.425 mm , c) 0.425 mm to 2 mm d) 1.0 mm to 3.45 mm
5. Colony care committee should be formed in big colonies normally having more than _____ nos of quarters?
a) 1000 nos
b) 500 nos
c) 1500 nos
d) 750 nos
6. Which registers are to be maintained at SSE/Works office ?
a) Building register b) Encroachment inspection register , c) Structural steel inspection register.
d) All of the above.
7. What is the initial setting time(min) and final setting time(max) for OPC (43 grade) cement ?
a) 60 min & 540 min b) 30 min & 600 min c) 45 min & 300 min , d) 30 min & 720 min
8. What is the IS code of PPC cement ?
a) IS 269 b) IS 8112 , c) IS 1489 d) IS 12269
9. Slump test of concrete is performed to check the
a) Specific gravity of concrete b) workability of concrete , c) Initial setting time , d) Fineness of cement.
10. As per IS code 456, the slump value in mm for RCC work in beam slabs, columns etc
a) 50 mm – 100 mm b) 10 mm – 15 mm c) 200 mm – 300 mm d) None of the above
11. Reinforced cement concrete is composite material in which concrete is relatively low tensile strength and ductility are compensated by inclusion of reinforcement bar having –
a) Low tensile strength b) Low ductility c) High tensile strength and ductility d) High compressive strength.
12. The compressive strength of 53 grade of concrete after 28 days of curing should be
a) 27 N/mm² b) 53 N/mm² c) 43 N/mm² d) 33 N/mm²

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13. Weight of one standard bag of cement is

a) 25 Kg b) 50 kg c) 45 Kg d) 100 kg.

14. How many cubes are taken for testing of compressive strength of concrete when the volume of the concrete volume is 1 to 5 Cum

a) 3 cubes b) 6 cubes c) 10 cubes d) 9 cubes.

15. As per MEA, what should be the minimum number of water taps to be provided in an island platform for a NSG 2 station ?

a) 12 b) 15 c) 20 d) 18

16. Which trap is used to prevent the entry of foul gas from main sewerage line into domestic sewerage line ?

a) Gully trap b) Fly trap c) Floor trap d) None of the above

17. What is the height of letters in the tertiary name board in Railway station ?

a) 150 mm b) 120 mm c) 75 mm d) 65 mm

18. What does ORN value 1 for a bridge indicate ?

a) Sound condition b) Needs special repair c) Needs immediate rehabilitation d) All of the above.

19. PH value of drinking water should be

a) Below 6 b) Between 6.5 and 8.5 c) between 7.5 to 10 d) above 10

20. What should be height of passenger Platform in suburban station ?

a) 940 mm b) 840 mm c) 1000 mm d) 860 mm

21. What is the minimum vertical clearance from the top of the Rail upto the bottom of the FOB in a 25 KV electrified section.

a) 5500 mm b) 6250 mm c) 6850 mm d) None of the above.

22. Maximum horizontal distance from the centre of the track to face of any platform wall

a) 1905 mm b) 1685 mm c) 2135 mm d) 1680 mm

23. As per PPEact- 1971 the maximum time that is given to the encroachers for showing cause against notice under section 4 of this act is

a) 12 days b) 14 days c) 15 days d) 7 days

24. The distance of the demarcation line from the edge of the platform

a) 1.8 mt b) 1.5 mt c) 1.5 mt d) 2.0 mt

25. From a distribution main of 40 mm dia, the number of service connection pipes obtained of 15 mm dia

a) 12 nos b) 10 nos c) 15 nos d) 20 nos

26. The minimum number of main steel bar provided in circular column is

a) 6 nos b) 4 nos c) 8 nos d) 5 nos

27. Approximate quantity of cement required per 1 m³ of cement concrete (1:2:4) is

a) 317kg b) 350 Kg c) 320 kg d) 300 kg

28. Tack coat is associated with

- a) Plaster work b) RCC work c) Wood work d) Road work

29. One British gallon is equal to

- a) 4.50 Litre b) 4.54 litre c) 5.0 litre d) 4.60 litre.

30. Grouting pressure in case of cement pressure grouting ranges between

- a) 2 to 4 kg/cm² b) 3 to 5 kg/cm² c) 3.5 to 7 kg/cm² d) 1 to 2 kg/cm²

31. Choose the correct from the following options that is mandatory for Divyangan passengers in any Railway stations

- a) Ramp with hand railing in the Entry and exit of Station b) Divyangan toilet c) water booth for Divyangan d) All of the above.

32. Ramp provided in a Railway station for Divyangan person should have a slope of

- a) 1 in 15 b) 1 in 10 c) 1 in 12 d) None of the above

33. What colour is used in a tertiary name board of a non-suburban railway station?

- a) Blue on white background b) Black on white back ground c) Black on traffic yellow background d) Red on white back ground.

34. Height of goods platform above rail level

- a) 840 mm b) 1025 mm c) 1065 mm d) 940 mm

35. Weight of ISA 75 mm x 75mm of thickness 10 mm per metre length should be

- a) 11.0 kg b) 9.5 Kg c) 12 kg d) 7.5 kg

36. Weight of 12mm dia HYSD bar per metre length should be

- a) 0.395 kg b) 0.617 kg c) 0.89 kg d) 1.58 kg

37. What is the frequency of inspection of structures along side the running lines by SSE/Works

- a) Once in a month b) Once in six month c) Yearly and d) Quarterly

38. What is the minimum slope to be provided in cement concrete roof for drainage of rain water ?

- a) 1 in 40 b) 1 in 50 c) 1 in 60 d) 1 in 100.

39. What should be colour used for colour washing exterior plastered surface of Railway staff qrts?

- a) Yellow b) Brick red c) Pale cream d) White

40. What should be minimum residual chlorine in drinking water at the farthest user point ?

- a) 0.5 PPM b) 0.2 PPM c) 0.4 PPM d) 0.3 PPM

41. What is the maximum frequency for inspection of a service building by JE/works in IR ?

- a) 1 year b) 6 months c) 4 months d) 3 months

42. Which type of filter will you prefer to supply drinking water to a Railway colony with 5000 staff quarters where source of water is only river having turbidity 25 NTU ?

- a) Slow sand gravity filter b) Rapid sand gravity filter c) Pressure filter d) None of the above.

43. What should be the water storage capacity for a Railway colony with a stand by pump ?

- a) $\frac{1}{2}$ of the total demand in 24 hours
b) Full capacity of the total demand in 24 hours.
c) $\frac{1}{4}$ th of the total demand in 24 hours.
d) None of the above.

44. Chemical test for drinking water supplied to a Railway colony should be done at least once in ..

- a) 12 months b) 24 months c) 4 months d) 6 months

45. Bacteriological test for drinking water in Railway station should be done at least once in ...

- a) 1 month b) 3 months c) 6 months d) None of the above.

46. Pedometer is used to measure

- a) Distance b) Angle c) vertical heights d) None of the above.

47. Section Engineer(works) should inspect all the buildings, water supply installations, sewerage installation and drainage arrangement and to be recorded in the inspection register once in a

- a) 3 months b) 6 months c) 4 months d) 12 months

48. What is the frequency of inspection of structures such as workshop, running sheds, Platform covers, foot over bridges by SSE/works.

- a) Once in year , b) Once in 3 months c) Once in 6 months d) Once in 4 months

49. What should be schedule of interior distempering in case of Officers bungalow as per IRWM-

- a) Once in 5 years b) Once in two years c) Once in a year d) Once in 3 years.

50. What should be colour of all steel work of PF shelter as per IRWM -

- a) White b) Pale Blue c) Pale cream d) Alluminium

51. What should be the number of water closets for male person in case of railway office building -

- a) 1 in every 25 persons or part thereof , b) 1 in every 15 persons or part thereof
c) 1 in every 50 persons or part thereof d) 1 in every 20 persons.

52. What should be the size of the stop board to be provided on the road approaches on either side of the Level crossing –

- a) 500mm x 500 mm b) 675 mm x 525 mm c) 450 mm x 450 mm d) 600 mm x 450 mm

53. Advantages of Rain water harvesting –

- a) Promotes adequacy of underground water , b) Mitigate the effect of drought.
c) Reduce flood hazards d) all of the above.

54. Method of Rain water harvesting –

- a) Roof top rain Water Harvesting b) Recharge through abandoned hand pump c) Recharge through abandoned dug well/open well. d) all of the above.

55. What should be the minimum height(clear) of a room in case of Railway Residential buildings-

- a) 3.00 mt b) 2.75 mt c) 3.5 mt d) all of the above

56. In case of Island platform the slope of the platform surface away from the centre upto the edge of the coping should be –

- a) 1 in 50 b) 1 in 60 c) 1 in 100 d) None of the above.

57. What should be minimum numbers of water taps on each platforms in case of C category stations.-

- a) 12 nos on each PF b) 8 nos on each PF c) 6 nos on each PFs d) 10 nos on each PFs

58. What should be minimum requirement of water in case of Railway residential area i.e for household consumption for officers and staff per head –

- a) 150 litres/per day b) 200 litres /per day c) 250 litres/per day d) 300 litres /per day.

59. How many numbers of 20 mm dia service pipes can be taken from a 50 mm dia distributions pipes

- a) 20 b) 10 c) 25 nos d) none of the above

60. What shall be the desirable limit of maximum Total dissolved solids (TDS) in mg/l for drinking purpose as per IS – 10500 - 1991

- a) 500 mg/l b) 200 mg/l c) 150 mg/l d) none of the above.

61. What should be dimension of the 50 users septic tank-

- | | Length | Width | Liquid depth |
|----|--------------------|---------|--------------|
| a) | 2.0 mt | 0.90 mt | 1.2 mt |
| b) | 2.3 mt | 1.10 mt | 1.0 mt |
| c) | 4.0 mt | 1.4 mt | 1.3 mt |
| d) | None of the above. | | |

62. In case of demarcation of land boundary, the land boundary pillars should, in no case be at a greater distance apart (center to centre) –

- a) than $1/2$ of a Kilometre (500 mt) b) than $1/4$ th of a Kilometre(250 mt) c) $1/5$ th of a Kilometre(200 mt) d) None of the above.

63. What is category -A type of encroachment

- a) Encroachments by outsiders, removal of which requires action under PPE act.
b) Encroachments by outsiders, removal of which does not require action under PPE act.
c) Encroachments by Railway staff who have been allotted railway accommodation.
d) None of the above.

64. The responsibility for preventing encroachments in the circulating area of the station lies with

- a) SSE/Works b) Station manager c) Chief goods clerk d) All of the above.

65. How many days in a year is credited on account of leave on average pay (LAP) of a Railway servant.-

- a) 25 days b) 30 days c) 15 days d) 40 days.

66. How many days in a year is credited on account of leave on half average pay (LHAP) of a Railway servant.-

- a) 10 days b) 20 days c) 15 days d) 25 days.

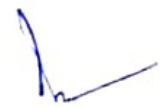
67. A Railway servant may be placed under suspension –

- a) Where a disciplinary proceedings against him is contemplated or is pending, or
b) Where in the opinion of the authority competent to place a Railway servant under suspension, he has engaged himself in activities prejudicial to the security of the state, or
c) where a case against him in respect of a criminal offence is under investigation, inquiry or trial .
d) In any of the above mentioned cases.

68. How many sets of Privilege passes are admissible for non gazetted staff

- a) 3 sets of passes in a year from 6th year of service.
b) 6 sets of pass in a year from 6th year of service.
c) 2 sets of pass in a year from 6th year of service.
d) None of the above.

69. A major penalty chargesheet is required to be issued on –

- a) SF 11 b) SF-5 c) SF – 3 d) SF -4
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70. Level crossing having TVU greater than 50,000 is classified as :
a) Special class b) A class c) B class d) C class

71. Level crossing beyond the outermost signal is called
a) Engineering gate b) Signal gate c) Operating gate d) None of the above.

72. The minimum distance of gate lodge of a level crossing from the centre line of the nearest railway track
a) 4 mt b) 6mt c) 8 mt d) 5 mt

73. Speed breaker has to be provided on the road approaches of level crossing at a maximum feasible distance within Railway boundary but not exceeding –
a) 10 m b) 15 m c) 20 m d) 12 m

74. Select the correct order of languages for writing principal name board-
a) English , Regional , Hindi
b) Regional, Hindi, English
c) Hindi, English, Regional
d) None of the above.

75. The main reinforcement bars are placed near the _____ in case of cantilever sunshade.

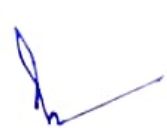
Fill up the blank space from the following –
a) Bottom b) Top c) Middle d) None of the above.

76. Verification of land boundaries and issue of certificate in the prescribed proforma is given by SSE/Works –
a) Once in six months b) Once in a year c) Once in three months d) none of the above.

77. The frequency of inspection of encroachments by SSE/works under his jurisdiction should be
a) Once in three months b) Once in six months c) Once in a year d) None of the above.

78. Disinfection of drinking water is done to remove
a) Odour b) colour c) Bacteria d) Bacteria.

79. ODC in Railway stands for
a) Organizational Domain Controller.
b) On direct current.
c) Over dimensional consignment.
d) None of the above.



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80. Height gauge in the level crossing should be located at a minimum distance of _____ m from the gate post.

- a) 5 m b) 7.5 m c) 8 m d) 10 m

81. The responsibility of removal of encroachments from Railway colony lies on

- a) SSE(works) with the help of RPF/Police
b) SSE(Pway) with the help of RPF/Police
c) Station master with the help of RPF/Police
d) None of the above.

82. The ends of all the platform should be provided with ramps at a slope not steeper than –

- a) 1 in 2 b) 1 in 5 c) 1 in 6 d) None of the above.

83. When the superstructure of bridge is partly above and partly below the formation level is called

- a) Semi through bridge b) Through bridge, c) deck bridge d) None of the above.

84. An important bridge is one which has total water way of equal to or more than –

- a) 800 sqm b) 1000 sqm c) 500 sqm d) None of the above.

85. Elcometer is used to measure –

- a) Gauge b) cross level c) Thickness of paint d) Air pressure.

86. What is the frequency of bridge inspection by SSE/Works within his jurisdiction

- a) Once in three months b) Once in a year c) Once in six months d) None of the above.

87. What is the frequency of detailed inspection of steel work of girders less than 12.2 m clear span by SSE/Works within his jurisdiction

- a) Once in 5 years b) Once in a year c) Once in six months d) None of the above.

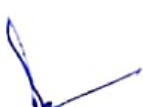
88. At important bridges, flood level gauges should be provided on abutments or on piers of the

- a) Central span b) End spans c) on the pier of any intermediate spans d) None of the above.

89. DFT in bridge painting means –

- a) Dilute film thickness. b) Dry film thickness c) Down film thickness. d) None of above.

90. The date of painting of steel work should be painted in _____ on the outside of the left girder of the first span in steel bridges

- a) In Red b) In white c) In black d) None of the above.
- 

91. The highest post of the division is –
a) GM , b) DRM c) CRB d) PCE

92. Name the Railway station situated at the highest altitude in India is –
a) Shimla b) Mt. Abu c) Darjeeling d) Ghum.

93. The HQ of South Eastern Railway is situated at –
a) Kharagpur b) Kolkata c) Purulia d) none of the above.

94. Diesel Locomotive works (DLW) is situated at –
a) Kapurthala b) Varanasi c) Perambur d) Bangalore

95. Full form of HRMS is –
a) Human resource management system.
b) Human resource management software.
c) Human resource management school.
d) None of the above.

96. E-pass is applied through the module –
a) IREPS b) IRWCMS c) HRMS d) GeM

97. RDSO is situated at –
a) Lucknow b) New Delhi c) Kolkata d) Mumbai

98. Vande Bharat express also known as
a) Train 18 b) Train 12 c) Train 20 d) None of the above.

99. Name the Indian railway staff who won the silver medal for the country at the Tokyo Olympic 2020 in 49 kg category weightlifting
a) Mary com b) SaikhomMirabaiChannu c) Ravi Kumar d) Bajrang punia

100. Zonal training centre of Eastern railway is situated at –
a) Jamalpur b) Kolkata c) Dhanbad d) Asansol.

101. Recommended language (s) of communication between Central govt and an office of B region are –
a) English only b) Hindi Only c) English & Hindi d) English , Hindi & Regional Language.

102. Hindi day is celebrated on –
a) 14 th September b) 14 th July c) 6th Oct d) 6th November

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103. In a station of C region as per Rajbhasa Rules, the station names are mentioned _____
no. of languages.

a) 1 b) 2 c) 3 d) 4

104. Kolkata belongs to _____ region

a) A b) B c) C d) D

105. Who is the Chairman of Central Hindi Committee

a) Prime Minister b) Home Minister c) Chief Minister d) President

106. What is the official Language of Arunachal Pradesh

a) English b) Bengali d) Urdu e) Hindi.

107. Union of India is classified into _____ regions under official language rules

a) A&B regions b) C&D regions c) A,B&C regions d) None of the above

108. What is the official language of Union of India

a) Hindi in DevnagariScript b) Hindi c) Sanskrit d) None of the above

109. Chandigarh belong to _____ region.

a) A b) B c) C d) D region

110. Cash award for clearing "Pragya" exam with 70% or higher score

a) 800/- b) 1200/- c) 1800/- d) 2400/-

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