

SUPPLEMENTARY EXAMINATION – SELECTION FOR THE POST OF JUNIOR ENGINEER/WORKS IN PAY BAND Rs. 9300-34800 WITH G.P. Rs. 4200/- AGAINST 25% PRQ – Engineering Department

Time: 3 hours

Max. Marks – 100

I. Expand the following (5 X 1 = 5)

1. RTI
2. CSO
3. RITES
4. ICF
5. IAS

II. Choose the correct answer (20 X 1 = 20)

1. Who is the Minister of State for Railways?
a) A.K. Murthy b) R. Velu c) K.H. Muniappa
2. Who is the President of India?
a) Dr. Abdul Kalam b) Pratibha Patil c) Pranab Mukherjee
3. Who is the Public Information Officer for Chennai Division?
a) Sr.DPO b) Sr.DCM c) ADRM
4. Who is the Finance Minister of Tamil Nadu?
a) Anbazagan b) Sengottaian c) D. Pannerselvam
5. Who is the present Captain of Indian Cricket Team?
a) M.S. Dhoni b) Sachin Tendulkar c) Shewag
6. The second longest beach in the world is situated in -----
a) Chennai b) Mumbai c) America
7. Choose the National bird of India?
a) Peacock b) Parrot c) Cuckoo
8. Who is the present Mayor of Chennai Corporation?
a) Ma. Subramaniam b) S. Duraisamy c) M.K. Stalin
9. Who is the present General Manager of Southern Railway?
a) A.K. Mittal b) Deepak Krishan c) Rakesh Chopra
10. Who is the Governor of Tamil Nadu?
a) Rosaiah b) P.C. Alexandar c) Chenna Reddy
11. When was the Official Language Act 1963 amended?
a) 1965 b) 1967 c) 1976

12. Who was the first Chairman of the Official Language Commission?
 a) B.G. Kher b) G.D. Panth c) V.V. Giri
13. At present how many languages are enlisted in the 8th schedule of Constitution?
 a) 24 b)22 c)26
14. When was the present Parliamentary Committee on Official Language constituted?
 a) January 76 b) January 65 c) May 63
15. How many Lok Sabha members are there in the Committee of Parliament on Official Language?
 a) 30 b)20 c)40
16. Who is the Chairman of the Divisional Official Language implementation Committee?
 a) DRM b)ADRM c) Hindi Officer
17. How the panel board of the train has to be displayed?
 a) In tri-lingual b) In bi-lingual c)In Hindi
18. Who is the Chairman of the Central Hindi Committee?
 a) Prime Minister b) Home Minister c) Finance Minister
19. How many times the regular Hindi Examination conducted in a year?
 a) two b)three c)one
20. What is the periodicity of Official Language Implementation Committees?
 a) once in 6 months b)once in 3 months c) once in a year

III. Fill in the blanks (25 X 1 = 25)

1. Stock brick shall have a crushing strength of not less than _____ kg/cm² when dry.
2. Petty repair books should be kept at _____ office.
3. The periodicity of inspection of encroachment should be once in _____ month per year.
4. Inspection of structures with roof trusses should be done by SE/Works once in _____
5. Bench mark should be left along the line in final locations survey at intervals of not more than _____ metre.
6. Earth work quantities to be mentioned in _____ unit.
7. Quantities for pipeline to be mentioned in _____ unit.
8. Mention any two survey instruments - _____
9. Scale of minimum essential amenities at 'A' class station for seating arrangements on each platform should be _____ seats.
10. The size of the Booking counter should be of width _____ metre.
11. EMD will be _____% of the tender value.
12. Security Deposit will be _____% of the contract value.
13. Zonal contract is for the period from the month of _____ every year.
14. Minimum Formation width for single line straight track in embankment is _____ mm.

15. Minimum distance centre to centre of track for existing lines is _____ mm.
16. _____ is the head of the Commercial Department.
17. _____ is the headquarters of South Eastern railway.
18. Deep holes are provided in _____ (abutment/Piers).
19. Minimum residual free chlorine should be available at the tail end point is _____ PPM.
20. Deduction of voids for supply of stone metal 200mm and above is _____%.
21. _____ soil has the least Specific gravity.
22. The clear cover for the main slab reinforcement in building is _____mm
23. Number of divisions available in Southern railway is _____.
24. The absorption of water by stock bricks after 24 hours immersion in cold water should not exceed _____% by weight.
25. Spacing of manholes designed for 300mm diameter sewer is _____ metres.

IV Answer any FIVE of the following: (5 X 10 = 50)

1. Write specification for RCC.
2. List out ten observations to be made during the inspection of Railway Quarters.
3. Estimate the quantities for septic tank of size 2m X 2m X 1m.
4. List out any five no. of minimum essential amenities and their scale to be provided in 'A' class stations.
5. List the name of the various department of zonal Railways and explain the functions of Civil Engineering.
6. Write short notes on
 - a) soakpit
 - b) SM book
 - c) break point chlorination
 - d) blanketing
7. a) Draw a cross section of lintel cum sunshade with reinforcement details.
b) short notes on weathering course
8. List out different types of estimates and explain two estimates.