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# **HSSC JE (Civil)**

**Previous Year Paper**  
**22 Nov, 2015**



1. Under what criterion restrict the candidates to contest the election in Panchayat Polls in Haryana recently was in news -
  - a) Mandatory educational qualification
  - b) Pending payments of power Bills
  - c) Candidates should also not have a criminal conviction
  - d) All of the above
2. Balwant Sagwal, who hails from Haryana was a National player of :-
  - a) Boxer
  - b) Wrestler
  - c) Athletes
  - ☒ d) Volleyball
3. According to Rankine's analysis, Minimum depth of foundation is equal to
  - a)  $\frac{q}{t} \left( \frac{1+\sin\phi}{1-\sin\phi} \right)^2$
  - ☒ b)  $\frac{q}{t} \left( \frac{1-\sin\phi}{1+\sin\phi} \right)^2$
  - c)  $\frac{q}{t} \left( \frac{1+\sin\phi}{1-\sin\phi} \right)$
  - d)  $\frac{q}{t} \left( \frac{1-\sin\phi}{1+\sin\phi} \right)$
4. Modulus of rigidity is defined as the ratio of
  - a) Longitudinal stress to longitudinal strain
  - ☒ b) Shear stress to shear strain
  - c) Stress to strain
  - d) Stress to volumetric strain
5. The radius of Mohr's circle for two equal unlike principle stresses of magnitude  $p$  is
  - ☒ a)  $p$
  - b)  $p/2$
  - c) zero
  - d) none of the above
6. Rankine's formula for column is valid when slenderness ratio
  - a) lies between 0 and 140.
  - b) lies between 0 and 100
  - c) is less than 80
  - ☒ d) has any value
7. As per IS : 800, the maximum bending moment for design of purlins can be taken as
  - a)  $\frac{WL}{6}$
  - b)  $\frac{WL}{8}$
  - c)  $\frac{WL}{10}$
  - d)  $\frac{WL}{12}$
8. Maximum pitch of rivets, used in steel stacks, is limited to
  - a)  $6t$
  - ☒ b)  $10t$
  - c)  $12t$
  - d)  $16t$

Where  $t$  is thickness of thinner plate being connected.
9. The maximum slenderness ratio of a steel column, the design of which is governed by wind or seismic forces is
  - a) 150
  - b) 180
  - ☒ c) 250
  - d) 350

10. Bolts are most suitable to carry
- Shear
  - bending
  - axial tension
  - Shear and bending
11. The 'Grand Trunk Road' built by Shershah connected Punjab with
- Agra
  - East Bengal
  - Lahore
  - Multan
12. Who is CEO of Microsoft
- Sunder Pinchai
  - Satya Nadella
  - Bill Gates
  - Sameer Bhatia
13. The Central Drug Research Institute of India is located at
- Madras
  - Lucknow
  - Delhi
  - Banglore
14. How many spokes are there in the Dharmachakra of the National Flag?
- 14
  - 18
  - 22
  - 24
15. The biggest planet is
- Venus
  - Mercury
  - Jupiter
  - Mars
16. Haryana Govt Announces Haryana Sports and Physical Fitness Policy 2015. According the preamble of the policy which statement is correct
- Aims to increase awareness among Haryana residents regarding significant benefits of physical activity and the practice of sports;
  - to cherishes and supports the pursuit of excellence in sports; to enhance capacity in Haryana's sports milieu..
  - to ensure a scenario where right to fitness and right to play can be reasonably realised.
  - All of the above
17. Manoj Kumar, an Indian film artist belongs to which district:-
- Kaithal
  - Karnal
  - Panipat
  - Jind
18. Morni Hill is situated in
- Mewat District
  - Palwal District
  - Panchkula District
  - Mahendragarh District
19. Who is chairman of Haryana Public Service Commission
- Dr Vandna Sharma
  - Bharat Bhushan Bharti
  - Manbir Singh Bhadana
  - Dr.Kulbir Chhikara
20. The length of the tangent of a simple curve having angle of deflection

$\theta$  and radius of curvature  $R$ , is equal to

- a)  $R \sin \frac{\theta}{2}$
- b)  $R \cos \frac{\theta}{2}$
- c)  $R \tan \frac{\theta}{2}$
- d)  $R \cot \frac{\theta}{2}$

21. The maximum super-elevation on hill roads should not exceed

- a) 7%
- b) 8%
- c) 9%
- d) 10%

22. The value of group index of a soil varies from

- a) 0 to 10
- b) 0 to 20
- c) 20 to 30
- d) 30 to 40

23. The minimum thickness of the base of a flexible pavement is kept as

- a) 5cm
- b) 10cm
- c) 15cm
- d) 20cm

24. Penetration test on bitumen is used for determining its-

- a) Grade
- b) Viscosity
- c) ductility.
- d) temperature susceptibility

25. The maximum spacing of contraction joints in rigid pavement is

- a) 2.5 M

- b) 3.5 M
- c) 4.5 M
- d) 5.5 M

26. Which of the following scales is largest one ?

- a) 1cm=50M
- b) 1:42000
- c)  $RF = \frac{1}{300000}$
- d) 1cm=50KM

27. The permissible error in chaining for measurement with chain on rough of hilly ground is

- a) 1 in 100
- b) 1 in 250
- c) 1 in 500
- d) 1 in 1000

28. If the magnetic bearing of the sun at a place at noon in southern hemisphere is  $167^\circ$ , the magnetic declination at the place is

- a)  $77^\circ N$
- b)  $23^\circ S$
- c)  $13^\circ E$
- d)  $13^\circ W$

29. The method of plane tabling commonly used for establishing the instrument stations only is a

- a) Method of radiation
- b) Method of intersection
- c) Method of traversing
- d) Method of resection

30. Contour lines cross ridge or valley lines at

- a)  $30^\circ$
- b)  $45^\circ$
- c)  $60^\circ$



d)  $90^\circ$

31. Which of the following represents a metamorphic Rock ? (i) Slate (ii) Shale (iii) quartzite the answer is

- a) only (iii)
- ☒ b) both (i) and (iii)
- c) both (ii) and (iii)
- d) all (i), (ii) and (iii)

32. Who is India's youngest self made billionaire at just 34 years of age from Haryana

- a) Sajjan Jindal
- b) Subhash Chandra
- c) Sameer Gehlot
- d) Cheti Lal Verma

33. Who is the Public Health and Engineering minister of Haryana?

- ☒ a) Ghanshyam Sarraf
- b) Om Prakash Dhankar
- c) Captain Abhimanyu
- d) Anil Viji

34. Who is head of the socio spiritual organisation *Dera Sacha Sauda*—

- a) Guru Satnam Singh
- b) Sant Balbir Seechewal
- ☒ c) Gurmeet Ram Rahim
- d) Guru Harnam Singh

35. What does HSIDC stand for?

- a) Haryana State Income Development Corporation

b) Haryana State Infrastructure Development Corporation

- ☒ c) Haryana State Industrial Development Corporation
- d) Haryana State Irrigation Development Corporation

36. What is the total area of Haryana ?

- a) 46,213 km<sup>2</sup>
- b) 48,314 km<sup>2</sup>
- c) 52,276 km<sup>2</sup>
- ☒ d) 44,212 km<sup>2</sup>

37. In which district 'Badkhal Lake' located

- a) Gurgaon
- b) Hisar
- ☒ c) Faridabad
- d) Mewat

38. Who is the present Governor of Haryana

- ☒ a) Sri Kaptan Singh Solanki
- b) Najeeb Jung
- c) Jagannath Pahadia
- d) Bhupinder Singh Hooda

39. Kalesar national park Haryana is situated in Which District

- a) Sultanpur
- b) Palwal
- ☒ c) Yamuna Nagar
- d) Rewari

40. Who is Deputy Speaker of Haryana Legislative assembly

- a) Kanwar Pal
- b) Dr Kamal Gupta

- c) Santosh Yadav
- d) Seema Trikha

41. Where Guru Gobind Singh halted while travelling from Paonta Sahib to Anandpur Sahib after the Battle of Bhangani in 1688

- a) GurdwaraNadha Sahib
- b) Gurudwara Dera Sahib
- c) Gurdwara Kapal Mochan
- d) GurudwaraNavin Patshahi

42. River Yamuna flows along the which boundary of Haryana

- ☒ a) eastern.
- b) western.
- c) southern
- d) northern

43. Where is Famous 'Bhuteshwar Temple' Located

- a) Pinjore
- b) Gurgaon
- c) Chandi Mandir
- ☒ d) Gohana

44. Which of the following river of Haryana is recently in news after its aquifer found in Muglawali village?

- a) Ghaggar
- b) Markanda River
- c) Satluj
- d) Sarasvati

45. Which of the following district does not falls under Gurgaon Division-

- a) Mewat,
- ☒ b) Jhajjar
- c) Rewari.
- d) Mahendragarh

46. A triangular channel section is most economical when each of its sloping sides is inclined to the vertical at an angle of

- a)  $30^{\circ}$
- ☒ b)  $45^{\circ}$
- c)  $60^{\circ}$
- d)  $75^{\circ}$

47. The average age of 4 boys, five year ago was 9 years. On including a new boy, the present average age of all the five is 15 years. The present present age of new boy is

- a) 14 years
- b) 6 years
- c) 15 years
- d) 19 years

48. A child reshapes a cone made up of clay of height 24 and radius 6cm into a sphere. The radius (in cm) of the sphere is

- a) 6
- b) 12
- c) 24
- d) 48

49. The average weight of a group of 20 boys was calculated to be 89.4 kg and it was later discovered that one weight was misread as 78 kg instead of 87 kg. The correct average weight is

- a) 88.95 kg
- b) 89.25 kg
- c) 89.55 kg
- d) 86.85 kg

50. Pipe A is an inlet pipe filling the tank at  $t$  L/h. Pipe B empties the tank in 3 h. The capacity of the tank is

- a) 12000 L
- b) 8000 L
- c) 6000 L
- d) 4000 L

51. 1.14 expressed as a per cent 1.9 is

- a) 6%
- b) 10 %
- c) 60%
- d) 90%

Choose the correct alternative from the given ones that will complete the series –

52. B E I N T ?

- a) X
- b) Y
- ☒ c) A
- d) Z

Select the related letters/word/number from the given alternatives-

53. Grenade : Gun :: ?

- a) Sister : Brother
- b) Father : Mother
- c) Man : Woman
- ☒ d) Head : Brain

54. Satish starts from A and walk 2km east upto B and turns southwards and walk 1km upto C. At C he turns to east and walks 2km upto D. He then turns northwards and walks 4km to E. How far is he from his starting point?

- a) 5km
- b) 6km
- c) 3km

d) 4km

55. If PALE is coded as 2134, EARTH is coded as 41590, how is PEARL coded in that code?

- a) 29530
- ☒ b) 24153
- c) 25413
- d) 25430

56. Select the one, which is different from other three

- a) ZKXJ
- b) CMAL
- c) TGRF
- ☒ d) FRTK

In the following question some part of the sentence has errors and some have none. Find out which part of the sentence has an error. If a sentence is free from error then your answer is (4), i.e. no error

57. (a) A senior doctor (b) expressed concern (c) about physician recommended the vaccine. (d) No error

Choose the word opposite in meaning –

58. Orderly

- a) Semitic
- b) Colic
- c) Democratic
- ☒ d) Chaotic

Fill in the Blanks with an appropriate word.

59. She remained a \_\_\_\_\_ all her life.

- ☒ a) spinster
- b) bachelor



- c) unmarried  
d) single
60. Find the correctly spelt word in the given group  
a) mandatary  
b) circulatory  
✓ c) temporary  
d) regulatory
61. Which of the following cities are called "Tricity":  
a) Punckhula -Ambala -Chandigarh  
b) Punchkula -Mohali -Chandigarh  
c) Punchkula-Ambala-Mohali  
d) Punchkula-Ambala-Kurukshetra
62. Who was the General in Indian army from Haryana:  
a) Vijay Kumar Singh  
✓ b) Umrao Singh Yadav  
c) Hoshiar Singh  
d) Rao Farman Ali Khan
63. The intensity of pressure developed by surface tension of 0.075 N/M in a droplet of water of 0.075 MM diameter is  
a) 0.8 N/CM<sup>2</sup>  
b) 0.6 N/CM<sup>2</sup>  
c) 0.4 N/CM<sup>2</sup>  
d) 400 N/CM<sup>2</sup>
64. The magnitude of the component of velocity at point (1,1) for a stream function  $\phi = x^2 - y^2$  is equal to  
a) 2  
b)  $\sqrt{2}$   
c) 4  
d)  $\sqrt[4]{2}$
65. Which of the following Froude number range indicated a weak JUMP  
a) 1.0 to 1.7  
b) 1.7 to 2.5  
c) 2.5 to 4.5  
d) 4.5 to 9.0
66. The pressure coefficient is the ratio of pressure forces to  
a) Gravity forces  
b) viscous forces  
c) inertial forces  
d) none of the above
67. Who has proposed partyless democracy in India?  
a) Jaya Prakash Narayan  
b) Mahatma Gandhi  
c) Vinoba Bhave  
d) S.A.Dange
68. Which Sikh Guru called himself the 'Sachcha Badshah'?  
a) Guru Gobind Singh  
✓ b) Guru Hargovind  
c) Guru Teg Bahadur  
d) Guru Arjun Dev
69. At which place in Bangal was the East India Company given permission to trade and build a factory by the Mughals in 1651?  
a) Calcutta  
✓ b) Cassim Bazar  
c) Singur  
d) Burdwan
70. The position of Indian Railway network in the world is  
a) Second

- b) Third  
☒ c) Fourth  
 d) Fifth
71. The stone suitable for rubble masonry should be  
☒ a) hard  
 b) tough  
 c) Heavy  
 d) Light
72. Crushing strength of a first class brick should not be less than  
 a)  $3.5 \text{ N/MM}^2$   
 b)  $7.0 \text{ N/MM}^2$   
☒ c)  $10.5 \text{ N/MM}^2$   
 d)  $14.0 \text{ N/MM}^2$
73. Which of the following bricks are used for lining of furnaces  
☒ a) Over burnt bricks  
 b) Under burnt bricks  
 c) Refectory bricks  
 d) First class bricks
74. Troposphere is the hottest part of the atmosphere because  
 a) it is closest to Sun  
 b) there are charged particles in it  
 c) it is heated by the Earth's surface  
 d) heat is generated in it
75. DNA fingerprint is used to identify the  
 a) Parents  
 b) Rapist  
☒ c) Thieves  
☒ d) All of the above
76. Glycol is added to aviation gasoline because it  
 a) reduces evaporation of petrol  
 b) increases efficiency of petrol  
 c) prevents freezing of petrol  
 d) reduce consumption of petrol
77. Which of the following folk dance is associated with Rajasthan?  
 a) Rauf  
 b) Jhora  
 c) Veedhi  
☒ d) Suisini
78. Gamal al - Ghitani, who passed away recently at age of 70, was an  
 a) Egyptian author  
 b) Cambodian President  
 c) Saudi Gymnast  
 d) Indian Lyrist
79. NJAC, which was very much in news recently stands for :-  
☒ a) National Judicial Appointments Commission  
 b) National Judges Appointments Commission  
 c) National Judicial Appointments Committee  
 d) National Judicial Application Commission
80. Sultan of Johor Cup, a yearly worldwide hockey tournament (under - 21) held recently in  
 a) Indonesia  
 b) Singapore  
 c) Taiwan  
 d) Malaysia

81. भाषा की नियमावली को कहते हैं?
- वर्ण
  - भाषा
  - व्याकरण
  - बोली
82. "प्राकृतिक" का विलोम शब्द है -
- आकृति
  - मधुर
  - कृत्रिम
  - जागृत
83. दिए गए विकल्प के अर्थ के आधार पर , वाक्य भेद चुनें ।  
"शायद आज वर्षा होगी ।"
- संदेहवाचक
  - इच्छावाचक
  - विधान वाचक
  - आग्यावाचक
84. The compacting factor test of cement concrete determines its -
- strength
  - porosity
  - degree of compaction under loads
  - workability
85. If the degree of saturation of a partially saturated soil is 60%, then air content of the soil is
- 40%
  - 60%
  - 80%
  - 100%
86. The critical hydraulic gradient is  $i_c$  of a soil mass of specific gravity  $G$  and voids ratio  $e$  is given by
- $i_c = \frac{G+1}{1-e}$
  - $i_c = \frac{G-1}{1+e}$
  - $i_c = \frac{G+1}{1+e}$
  - $i_c = \frac{G-1}{1-e}$
87. Which one of the following has least bearing capacity -
- Loose gravel
  - Hard rocks
  - Soft Rocks
  - Compact gravel
88. If the shearing stress is zero on two planes, then the angle between the two planes is.
- $45^\circ$
  - $90^\circ$
  - $135^\circ$
  - $225^\circ$
89. Harsh ka Tilla is situated at
- Panipat
  - Sonipat
  - Hisar
  - Kurukshetra
90. Vulture Conservation and Breeding Centre is situated at
- Sonipat
  - Hisar
  - Panipat
  - Pinjore



91. Tilyar Lake is situated at

- a) Sonipat
- b) Rohtak
- c) Jind
- d) Hisar



92. In which of the following systems of government is bicameralism an essential feature?

- a) Federal System
- b) Unitary System
- c) Parliamentary System
- d) Presidential System



93. Railway coaches are manufactured at

- a) Jamshedpur
- b) Chittaranjan
- c) Parambur
- d) Varanasi

94. The concrete having a slump of 6.5 cm., is said to be

- a) Plastic
- b) dry
- c) Earth moist
- d) semi-plastic

95. Low percentage of tricalcium silicate and high percentage of dicalcium silicate in cement result in

- a) Rapid hardening
- b) high early strength
- c) high heat generation
- d) none of these

96. The value of  $C_v$  for sharp edged orifice is generally

- a) 0.98
- b) 0.95
- c) 0.96
- d) 0.97

97. To construct massive dam the type of cement used is

- a) blast furnace slag cement
- b) low heat cement
- c) rapid hardening cement
- d) ordinary Portland cement

98. The measuring 50 liters of aggregate, the inner dimensions of a forma should be

- a) 25cm x 25cm x 40cm
- b) 29cm x 29cm x 48cm
- c) 30cm x 30cm x 50cm
- d) 31cm x 31cm x 52cm

99. The intrinsic equation of an ideal transition curve representing a clothoid is given by

- a)  $\phi = \frac{\ell^2}{2RL}$
- b)  $\phi = \frac{\ell^2}{4RL}$
- c)  $\phi = \frac{\ell^2}{8RL}$
- d)  $\phi = \frac{\ell^2}{16RL}$

100. The standard equation of a cubic parabolic transition curve provided on road is

- a)  $\frac{x}{6R.L}$
- b)  $\frac{x^2}{6R.L}$
- c)  $\frac{x^3}{6R.L}$
- d) None of these