1. What is the main different between distribution transformer and power transformer?
2.Where manning formula used
3.what is the difference between item category and material type ?
4. When a square wave is applied to primary of a transformer then what will be output
5.wave form of secondary ?
6.what are the warehouse research? and process of warehouse research?
7. What is the rating of HT SUBSTATION and LT SUBSTATION? 8. which of the following rivers does not form any delta T ITS MOUTH?
Cauvery, Mahanadi, Godawari, Tapti
10.How much is the minimum marks for CIVIL judge interview in MPPSC
11.what are the uses of graphite electrode in various field.
12.what is the use of "fg" command ?
13.what are %TYPE and %ROWTYPE? what is the difference?
SAIL Placement Paper General Knowledge Questions
14.where does a body have least weight?
a) at the equator
b) at the poles

c) at earth's center
d) none of these
15. what is the millman's theorem?
16. what happens if a dc motor is fed an ac signal?
17. calculate electron mobility.
18. power MOSFET is voltage controlled or current controlled?
19. if you want a 640 k RAM, what specification should u specify in the drive?
20. max efficiency of a class a amplifier?
21.what r resistors in IC made of?
21 6 girls and 6 boys sitting randomly in a line. what probability of girls being together?
22.what is the prob. of two friends having birthdays in same month?
23. $(D^2 + 4)y = kx$ what if PI?
24. lim x-infinity sinx/x
25. express x/(x+1) as taylor's series
26.principle of jet engine

27. why hydraulic systems used in a aircrafts instead of electrical? 28. steel + ? = corrosion-resistant material? 29. what happens to speed of em wave as frequency increases? 30. which char. of em wave does not change when it travels from one mdium to another? 31. circuit given. find attenuation in db. 32. circuit given. how much feedback? 33 (s-1)/(s+1) is high pass filter/ low pass filter? 34 fastest logic family among rtl, dtl, ttl? 35. in common emitter config. change in iC on changing vBE? 36. what happens if gate voltage of an ON scr is decreased? 37. fermi level change with temperature in n type semiconductor? 38 mosfet has threshold voltage 1v when n+ polysilicon is used in gate. what is threshold voltage when polysilicon used is of n+ type? 39 simple ckts using zener diode.

40. what is the p+ substrate in an isolated pn junction ic connected to?
41. opamp circuit given. open loop gain=100. closed loop gain=?
42. which type of parameters(h/y/z) suitable in particular application?
43. given parallel LC ckt. find angle between currents in branches at resonance.
44. what is Q of series RLC ckt? (voltage gain/ admttance etc.)
45 resonant freq of parallel RLC ckt. ?
46. thin metal foil inserted between capacitor plates. foil connected to one plate. change in capacitance?
47. ques on reflection of em wave at air= dielectric interface. dlc const=9
48 what is brewster's angle?
49. why microwave freq not used for ionospheric propagation?
50. uhf range?
51 freq range used in satellite comunication?
52. which ionospheric bands used for commercial purposes?
53 question on transmission line impedance matching?

54. flip- flop d, t 43. convert 32 k pulses to 1 hz pulses using decade counters etc

- SAIL Placement Paper General Knowledge Questions
- Q.1) Bharat Nirman Scheme of the UPA Government does not include :
- (A) Rural Water Supply Project
- (B) Irrigation Benefit Programme
- (C) Rural Electrification
- (D) Sarva Shiksha Abhiyan -ANS
- Q.2) Which one of the following committee recommended the abolition of reservation of items for the

small scale sector in industry?

- (A) Abid Hussain Committee-ANS
- (B) Narasimhan Committee
- (C) Nayak Committee
- (D) Rakesh Mohan Committee
- Q.3) In the last one decade which one among the following sectors has attracted the highest Foreign Direct

Investment inflows into India?

- (A) Chemicals other than fertilizers
- (B) Services sector
- (C) Food Processing
- (D) Telecommunication _ANS
- Q.4) Who formulates the monetary policy in India?
- (A) SEBI-ANS (B) RBI (C) Finance Ministry (D) Planning Commission
- Q.5) The population of Uttar Pradesh has been rapidly growing during the last two decades because of :
- (A) Increased literacy rate (B) Improvement in health and control of diseases (C) Improved agriculture (D) Rapid urbanization -Ans
- Q.6) Consider the following statements and select the correct answer using the code given below :

Assertion (A): Educated unemployment increases with high rate of economic growth.

Reason (R): It happens only when there is lack of professional education.

Codes:

(A) Both A and R are correct and R is the correct explanation of A.

(B) Both A and R are correct but R is not the correct explanation of A.

(C) A is true but R is false.

(D) A is false but R is true.

Q.7) Six more Public Sector Undertakings have been accorded status of miniratna by Government of India

(September 2006). Choose the one which is not included amongst them from the following:

- (A) Bharat Sanchar Nigam
- (B) Indian Telephone Industries
- (C) Hindustan Latex
- (D) Rashtriya Ispat
- Q.8) Consider according to Buddhism:

Assertion (A): There is no rebirth.

Reason (R): There is no soul.

Now select your answer from the following code:

- (A) Both A and R are true and R is the correct explanation of A.
- (B) Both A and R are true but R is not the correct explanation of A.
- (C) A is true but R is false.
- (D) A is false but R is true.
- Q.9) Which one of the following propounded that destiny determines everything, man is powerless?
- (A) Jainas (B) Buddhists (C) Ajivakas (D) Mimansakas
- Q.10) Lord Buddha preached the following four noble truths. Put them in correct order using the code given

below: (a) There is suffering. (b) There is cessation of suffering. (c) There is a path leading to the cessation of suffering. (d) There is cause of suffering. Codes: (A) a, d, b, c (B) a, d, c, b (C) a, c, b, d (D) a, b, d, c Answers 1. (D)2. (A)3. (D)4. (B)5. (D) 6. (A)7. (B)8. (D)9. (C)10 Q.11) Sheikh Nizamuddin Auliya was the disciple of : (A) Sheikh Alauddin Sabir (B) Khwaja Moinuddin Chisti (C) Baba Farid (D) Sheikh Ahmad Sirhindi Q.12) Which one of the following was favoured by Nehru but not favoured by Gandhiji? (A) Truth (B) Non-violence (C) Untouchability (D) Heavy industrialisation Q.13) Consider: Assertion (A): Nehru had no regard for the Upanishads. Reason (R): His attitude was scientific. Now select your answer from the following code:

- (A) Both A and R are true and R is the correct explanation of A.
- (B) Both A and R are true but R is not the correct explanation of A.
- (C) A is true but R is false.
- (D) A is false but R is true.

- Q.14) Ashtadhayi was written by:
- (A) Vedavyas (B) Panini
- (C) Shukadeva (D) Balmiki
- Q.15) Adi Shankaracharya established four mathas. These mathas are situated at:
- (A) Sringeri, Dwarka, Joshimath, Prayab
- (B) Dwarka, Joshimath, Prayag, Kanchi
- (C) Joshimath, Dwarka, Puri, Sringeri
- (D) Puri, Sringeri, Dwarka, Varanasi
- Q.16) Who was the founder of 'Servants of India Society'?
- (A) Madan Mohan Malviya
- (B) Sarojini Naidu
- (C) Justice Ranade
- (D) Gopal Krishna Gokhale
- Q.17) The third Sangam was held at:
- (A) Arrikkamedu (B) Ernakulam (C) Madurai (D) Tuticorin
- Q.18) Who among the following was the founder of the 'Satya Shodhak Samaj'?
- (A) Dr. B.R.Ambedkar (B) Jyotiba Phule (C) Narayan Guru (D) Ramaswamy Naicker
- Q.19) Cotton for textile was first cultivated in :
- (A) Egypt (B) Mesopotamia (C) Central America (D) India
- Q.20) Consider the following statements:
- Assertion (A): Muhammad Tughlaq's scheme of token currency was a failure.
- Reason (R): Muhammad Tughlaq had no proper control over the issuance of coins.

Select the correct answer using the code given below:

- (A) Both A and R are true and R is the correct explanation of A.
- (B) Both A and R are true but R is not the correct explanation of A.
- (C) A is true but R is false.
- (D) A is false but R is true.
- Q.21) By which name was Chanakya known in his childhood?

- (A) Ajaya (B) Chanakya (C) Vishnugupta (D) Deogupta
- Q.22) Rock cut architecture in Harapan culture context has been found at :
- (A) Kalibangan (B) Dhaulabira (C) Kotdiji (D) Amri
- Q.23) Where was the first Madarsa set up by the British in India?
- (A) Madras (B) Bombay (C) Aligarh (D) Calcutta
- Q.24) Who among the following Pakistani National was awarded the 'Bharat Ratna' by the Indian

Government?

- (A) Liaqat Ali Khan
- (B) M.A.Jinnah
- (C) Khan Abdul Ghaffar Khan
- (D) Muhammad Iqbal
- Q.25) Match List-I with List-II and select the correct answer using the code given below:

List-I List-II

- (a) Lachchu Maharaj 1. Dhrupad
- (b) Fayyaz Khan 2. Ghazal
- (c) Sidheshwari Devi 3. Kathak
- (d) Talat Mehmood 4. Thumri

Codes:

- (a) (b) (c) (d)
- (A) 4 3 2 1
- (B) 3 1 4 2
- (C) 1 2 3 4
- (D) 2 3 1 4

ANSWERS

- (A) 11. (C)12. (D)13. (D)14. (B)15. (C) 16. (D)17. (C)18. (B)19. (D)20. (A) 21. (C)22. (B)23. (D)24. (C)25. (B)
- SAIL Placement Paper, Technical 2010|SAIL Previous Years Questions |SAIL Technical Questions

1. What is the main different between distribution transformer and power transformer?
2.Where manning formula used
3.what is the difference between item category and material type ?
4. When a square wave is applied to primary of a transformer then what will be output
5.wave form of secondary ?
6.what are the warehouse research? and process of warehouse research?
7.What is the rating of HT SUBSTATION and LT SUBSTATION?
8.which of the following rivers does not form any delta T ITS MOUTH?
Cauvery, Mahanadi, Godawari, Tapti
10.How much is the minimum marks for CIVIL judge interview in MPPSC
11.what are the uses of graphite electrode in various field.
12.what is the use of "fg" command ?
13.what are %TYPE and %ROWTYPE? what is the difference?
SAIL Placement Paper General Knowledge Questions
14.where does a body have least weight?
a) at the equator
b) at the poles
c) at earth's center
d) none of these

15. what is the millman's theorem?
16. what happens if a dc motor is fed an ac signal?
17. calculate electron mobility.
18. power MOSFET is voltage controlled or current controlled?
19. if you want a 640 k RAM, what specification should u specify in the drive?
20. max efficiency of a class a amplifier?
21.what r resistors in IC made of?
21 6 girls and 6 boys sitting randomly in a line. what probability of girls being together?
22.what is the prob. of two friends having birthdays in same month?
23. $(D^2 + 4)y = kx$ what if PI?
24. lim x-infinity sinx/x
25. express x/(x+1) as taylor's series
26.principle of jet engine
27. why hydraulic systems used in a aircrafts instead of electrical?

28. steel + ? = corrosion-resistant material? 29. what happens to speed of em wave as frequency increases? 30. which char. of em wave does not change when it travels from one mdium to another? 31. circuit given. find attenuation in db. 32. circuit given. how much feedback? 33 (s-1)/(s+1) is high pass filter/ low pass filter? 34 fastest logic family among rtl, dtl, ttl? 35. in common emitter config. change in iC on changing vBE? 36. what happens if gate voltage of an ON scr is decreased? 37. fermi level change with temperature in n type semiconductor? 38 mosfet has threshold voltage 1v when n+ polysilicon is used in gate. what is threshold voltage when polysilicon used is of n+ type? 39 simple ckts using zener diode. 40. what is the p+ substrate in an isolated pn junction ic connected to?

41. opamp circuit given. open loop gain=100. closed loop gain=?
42. which type of parameters(h/y/z) suitable in particular application?
43. given parallel LC ckt. find angle between currents in branches at resonance.
44. what is Q of series RLC ckt? (voltage gain/ admttance etc.)
45 resonant freq of parallel RLC ckt. ?
46. thin metal foil inserted between capacitor plates. foil connected to one plate. change in capacitance?
47. ques on reflection of em wave at air= dielectric interface. dlc const=9
48 what is brewster's angle?
49. why microwave freq not used for ionospheric propagation?
50. uhf range?
51 freq range used in satellite comunication?
52. which ionospheric bands used for commercial purposes?
53 question on transmission line impedance matching?
54. flip- flop d, t 43. convert 32 k pulses to 1 hz pulses using decade counters etc

- SAIL Placement Paper General Knowledge Questions
- Q.1) Bharat Nirman Scheme of the UPA Government does not include :
- (A) Rural Water Supply Project
- (B) Irrigation Benefit Programme
- (C) Rural Electrification
- (D) Sarva Shiksha Abhiyan -ANS
- Q.2) Which one of the following committee recommended the abolition of reservation of items for the

small scale sector in industry?

- (A) Abid Hussain Committee-ANS
- (B) Narasimhan Committee
- (C) Nayak Committee
- (D) Rakesh Mohan Committee
- Q.3) In the last one decade which one among the following sectors has attracted the highest Foreign Direct

Investment inflows into India?

- (A) Chemicals other than fertilizers
- (B) Services sector
- (C) Food Processing
- (D) Telecommunication _ANS
- Q.4) Who formulates the monetary policy in India?
- (A) SEBI-ANS (B) RBI (C) Finance Ministry (D) Planning Commission
- Q.5) The population of Uttar Pradesh has been rapidly growing during the last two decades because of :
- (A) Increased literacy rate (B) Improvement in health and control of diseases (C) Improved agriculture (D) Rapid urbanization -Ans
- Q.6) Consider the following statements and select the correct answer using the code given below :

Assertion (A): Educated unemployment increases with high rate of economic growth.

Reason (R): It happens only when there is lack of professional education.

(A) Both A and R are correct and R is the correct explanation of A. (B) Both A and R are correct but R is not the correct explanation of A. (C) A is true but R is false. (D) A is false but R is true. Q.7) Six more Public Sector Undertakings have been accorded status of miniratna by Government of India (September 2006). Choose the one which is not included amongst them from the following: (A) Bharat Sanchar Nigam (B) Indian Telephone Industries (C) Hindustan Latex (D) Rashtriya Ispat Q.8) Consider according to Buddhism: Assertion (A): There is no rebirth. Reason (R): There is no soul. Now select your answer from the following code: Codes: (A) Both A and R are true and R is the correct explanation of A. (B) Both A and R are true but R is not the correct explanation of A. (C) A is true but R is false. (D) A is false but R is true. Q.9) Which one of the following propounded that destiny determines everything, man is powerless? (A) Jainas (B) Buddhists (C) Ajivakas (D) Mimansakas Q.10) Lord Buddha preached the following four noble truths. Put them in correct order using

below:

the code given

(a) There is suffering.

- (b) There is cessation of suffering.(c) There is a path leading to the cessation of suffering.(d) There is cause of suffering.Codes:
- (A) a, d, b, c
- (B) a, d, c, b
- (C) a, c, b, d
- (D) a, b, d, c

Answers

- 1. (D)2. (A)3. (D)4. (B)5. (D) 6. (A)7. (B)8. (D)9. (C)10
- Q.11) Sheikh Nizamuddin Auliya was the disciple of :
- (A) Sheikh Alauddin Sabir
- (B) Khwaja Moinuddin Chisti
- (C) Baba Farid
- (D) Sheikh Ahmad Sirhindi
- Q.12) Which one of the following was favoured by Nehru but not favoured by Gandhiji?
- (A) Truth (B) Non-violence (C) Untouchability (D) Heavy industrialisation
- Q.13) Consider:

Assertion (A): Nehru had no regard for the Upanishads.

Reason (R): His attitude was scientific.

Now select your answer from the following code:

- (A) Both A and R are true and R is the correct explanation of A.
- (B) Both A and R are true but R is not the correct explanation of A.
- (C) A is true but R is false.
- (D) A is false but R is true.
- Q.14) Ashtadhayi was written by:
- (A) Vedavyas (B) Panini

- (C) Shukadeva (D) Balmiki
- Q.15) Adi Shankaracharya established four mathas. These mathas are situated at :
- (A) Sringeri, Dwarka, Joshimath, Prayab
- (B) Dwarka, Joshimath, Prayag, Kanchi
- (C) Joshimath, Dwarka, Puri, Sringeri
- (D) Puri, Sringeri, Dwarka, Varanasi
- Q.16) Who was the founder of 'Servants of India Society'?
- (A) Madan Mohan Malviya
- (B) Sarojini Naidu
- (C) Justice Ranade
- (D) Gopal Krishna Gokhale
- Q.17) The third Sangam was held at:
- (A) Arrikkamedu (B) Ernakulam (C) Madurai (D) Tuticorin
- Q.18) Who among the following was the founder of the 'Satya Shodhak Samaj'?
- (A) Dr. B.R.Ambedkar (B) Jyotiba Phule (C) Narayan Guru (D) Ramaswamy Naicker
- Q.19) Cotton for textile was first cultivated in:
- (A) Egypt (B) Mesopotamia (C) Central America (D) India
- Q.20) Consider the following statements:
- Assertion (A): Muhammad Tughlaq's scheme of token currency was a failure.
- Reason (R): Muhammad Tughlaq had no proper control over the issuance of coins.

Select the correct answer using the code given below:

- (A) Both A and R are true and R is the correct explanation of A.
- (B) Both A and R are true but R is not the correct explanation of A.
- (C) A is true but R is false.
- (D) A is false but R is true.
- Q.21) By which name was Chanakya known in his childhood?
- (A) Ajaya (B) Chanakya (C) Vishnugupta (D) Deogupta
- Q.22) Rock cut architecture in Harapan culture context has been found at :

- (A) Kalibangan (B) Dhaulabira (C) Kotdiji (D) Amri
- Q.23) Where was the first Madarsa set up by the British in India?
- (A) Madras (B) Bombay (C) Aligarh (D) Calcutta
- Q.24) Who among the following Pakistani National was awarded the 'Bharat Ratna' by the Indian

Government?

- (A) Liagat Ali Khan
- (B) M.A.Jinnah
- (C) Khan Abdul Ghaffar Khan
- (D) Muhammad Iqbal
- Q.25) Match List-I with List-II and select the correct answer using the code given below:

List-I List-II

- (a) Lachchu Maharaj 1. Dhrupad
- (b) Fayyaz Khan 2. Ghazal
- (c) Sidheshwari Devi 3. Kathak
- (d) Talat Mehmood 4. Thumri

Codes:

- (a) (b) (c) (d)
- (A) 4 3 2 1
- (B) 3 1 4 2
- (C) 1 2 3 4
- (D) 2 3 1 4

ANSWERS

(A) 11. (C)12. (D)13. (D)14. (B)15. (C) 16. (D)17. (C)18. (B)19. (D)20. (A) 21. (C)22. (B)23. (D)24. (C)25. (B)