## **Electrical Cables MCQ PDF**

4. The thickness of the layer of insulation on the conductor, in cables, depends upon
(a) reactive power
(b) power factor
(c) voltage
(d) current carrying capacity.
5. The bedding on a cable consists of
(a) hessian cloth
(b) jute
(c) any of the above
(d) none of the above.
6. In a cable immediately above metallic sheathis provided.
(a) earthing connection
(b) bedding
(c) armouring
(d) none of the above.
7. The current carrying capacity of cables in D.C. is more than that in A.C. mainly due to
(a) absence of harmonics

(b) non-existence of any stability limit
(c) smaller <u>dielectric loss</u>
(d) absence of ripples
(e) none of the above.
8 cables are used for 132 kV lines
(a) High tension
(b) Super tension
(c) Extra high tension
(d) Extra super voltage.
9. The minimum dielectric stress in a cable is at
<ul><li>9. The minimum dielectric stress in a cable is at</li><li>(a) armour</li></ul>
(a) armour
(a) armour (b) bedding
<ul><li>(a) armour</li><li>(b) bedding</li><li>(c) conductor surface</li></ul>
<ul><li>(a) armour</li><li>(b) bedding</li><li>(c) conductor surface</li></ul>
<ul><li>(a) armour</li><li>(b) bedding</li><li>(c) conductor surface</li><li>(d) lead sheath.</li></ul>
<ul><li>(a) armour</li><li>(b) bedding</li><li>(c) conductor surface</li><li>(d) lead sheath.</li></ul>
<ul> <li>(a) armour</li> <li>(b) bedding</li> <li>(c) conductor surface</li> <li>(d) lead sheath.</li> </ul> 10. In single wire cables armouring is not done to <ul> <li>(a) avoid excessive sheath losses</li> </ul>

11. <u>Dielectric strength</u> of rubber is around			
(a) 5 kV/mm	1		
(b) 15 kV/m	m		
(c) <b>30 kV/m</b>	(c) <b>30 kV/mm</b>		
(d) 200 kV/mm.			
12. Low tens	sion cables are generally used up to		
(a) 200 V	(b) 500 V		
(c) 700 V	(d) <b>1000 V</b>		
13. In a cabl	e, the maximum stress under operating conditions is at		
(a) insulation	n layer		
(b) sheath			
(c) armour			
(d) conducto	or surface.		
14. High ten	sion cables are generally used up to		
(a) <b>11 kV</b>	(b) 33 kV		
(c) 66 kV	(d) 132 kV		
15. The surg	ge resistance of cable is		
(a) 5 ohms	(b) 20 ohms		

(c) <b>60 ohms</b>	(d) 100 ohms
16. In the cables,	the location of fault is usually found out by comparing
(a) the resistance	of the conductor
(b) the inductance	e of conductors
(c) the capacitanc	es of insulated conductors
(d) all above para	meters.
17. In capacitance	grading of cables we use a dielectric.
(a) composite	
(b) porous	
(c) homogeneous	
(d) hygroscopic.	
18. Pressure cable	s are generally not used beyond
(a) 11 kV	(b) 33 kV
(c) <b>66 kV</b>	(d) 132 kV
19. The material f	or armouring on cable is usually
(a) steel tape	
(b) galvanized ste	el wire
(c) any of the abo	ve

(d) none of the above.		
20. Cables, genera	lly used beyond 66 kV are	
(a) oil filled	(b) S.L. type	
(c) belted	(d) armoured	
21. The <u>relative pe</u>	ermittivity of rubber is	
(a) between 2 and	3	
(b) between 5 and	6	
(c) between 8 and	10	
(d) between 12 an	d 14	
22. Solid type cabl	es are considered unreliable beyond 66 kV because	
(a) insulation may	melt due to higher temperature	
(b) skin effect dom	ninates on the conductor	
(c) of corona loss b	petween conductor and sheath material	
(d) there is a dang	er of breakdown of insulation due to the presence of voids.	
23. If the length of	a cable is doubled, its capacitance	
(a) becomes one-fo	ourth	
(b) becomes one-h	nalf	
(c) becomes doub	le	

(d) remains unchanged.
24. In cables the charging current
(a) lags the voltage by 90°
(b) leads the voltage by 90°
(c) lags the voltage by 180°
(d) leads the voltage by 180°
25. A certain cable has an insulation of <u>relative permittivity</u> 4. If the insulation is replaced by one of relative permittivity 2, the capacitance of the cable will become
(a) one half
(b) four times double
(c) none of the above.
26. If a cable of homogeneous insulation has a maximum stress of 10 kV/mm, then the dielectric strength of insulation should be
(a) 5 kV/mm
(b) <b>10 kV/mm</b>
(c) 15 kV/mm
(d) 30 kV/mm
27. In the cables, sheaths are used to

(a) prevent the moisture from entering the cable
(b) provide enough strength
(c) provide proper insulation
(d) none of the above
28. The intersheaths in the cables are used to
(a) minimize the stems
(b) avoid the requirement of good insulation
(c) provide proper stress distribution
(d) none of the above.
29. The electrostatic stress in underground cables is
(a) same at the conductor and the sheath
(b) minimum at the conductor and maximum at the sheath
(c) maximum at the conductor and minimum at the sheath
(d) zero at the conductor as well as at the sheath
(e) none of the above.
30. The breakdown of insulation of the cable can be avoided economically by the use of
(a) intersheaths
(b) insulating materials with different dielectric constants

(c) intersheaths and insulating materials with different dielectric constants		
(d) none of the above.		
31. The insulation resistance of the cable decreases with		
(a) the increase in length of the insulation		
(b) the decrease in the length of the insulation		
(c) none of the above.		
32. A cable carrying alternating current has		
(a) hysteresis losses only		
(b) hysteresis and leakage losses only		
(c) hysteresis, leakage and copper losses only		
(d) hysteresis, leakage, copper and friction losses.		
33. Capacitance grading of cable implies		
(a) use of dielectrics of different permittivities		
(b) grading according to capacitance of cables per km length		
(c) cables using single dielectric in different concentrations		
(d) capacitance required to be introduced at different lengths to counter the effect of inductance		
(e) none of the above.		

34. Underground	cables are laid at sufficient depth
(a) to minimize ter	mperature stresses
(b) to avoid being	unearthed easily due to removal of soil
(c) to minimize the	e effect of shocks and vibration, duo to passing vehicles etc.
(d) for all of the ab	pove reasons.
35. The advantage	of cables over overhead transmission lines is
(a) easy maintena	nce
(b) low cost	
(c) can be used in	congested areas
(d) can be used in	high voltage circuits
36. The thickness	of metallic shielding on cables is usually
(a) 0.04 mm	(b) 0.2 to 0.4 mm
(c) 3 to 5 mm	(d) 40 to 60 mm
37. <u>Cables for 220</u>	kV lines are invariably
(a) mice insulated	(b) paper insulated
(c) compressed oi	or compressed gas insulated
(d) rubber insulate	ed
(e) none of the ab	ove.

38. A cable is to be designed for use on 1000 kV, which insulation would you prefer?		
(a) PVC		
(b) Vulcanized rubber		
(c) Impregnated paper		
(d) Compressed SF6 gas		
(e) none of the above.		
39. If a power cable and a communication cable are to run parallel the minimum distance between the two, to avoid interference, should be		
(a) 2 cm (b) 10 cm		
(c) <b>50 cm</b> (d) 400 cm		
40. Copper as conductor for cables is used as		
(a) annealed		
(b) hardened and tempered		
(c) hard drawn		
(d) alloy with chromium.		
41. The insulating material should have		
(a) low permittivity		
(b) high resistivity		

(c) high dielectric strength
(d) all of the above.
42. The advantage of oil filled cables is
(a) more perfect impregnation
(b) smaller overall size
(c) no ionization, oxidation and formation of voids
(d) all of the above.
43. The disadvantage with paper as insulating material is
(a) it is hygroscopic
(b) it has high capacitance
(c) it is an organic material
(d) none of the above.
44. The breakdown voltage of a cable depends on
(a) presence of moisture
(b) working temperature
(c) time of application of the voltage.
(d) all of the above.

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