1. The first to have trade relations with india were the.

(a) Dutch
(b) English
(c) Portuguese
(d) French

2. KLM Airlines belongs to.

(a) Kuwait
(b) The Netherlands
(c) Japan
(d) Indonesia

3. Who among the following transferred his capital from delhi to devagiri ?

(a) Iltutmish
(b) Ghiasuddin balban
(c) Ala-ud-din khilji
(d) Mohammad-bin-Tughlaq

4. Nobel Alfred Bernhard after whom nobel prizes are given was

(a) Engineer
(b) Chemist
(c) Both (a) and (b)
(d) Doctor

5. The Kalahari Desert is in.

(a) South- West Africa
(b) North Africa
(c) North - West Mexico
(d) South - west Asia

6. The Dronacharya Award for sports coaches was instituted in the year.

(a) 1984
(b) 1985
(c) 1987
(d) 1988

7. The indian civil Service was introduced during the time of .

(a) Lord canning
(b) Lord Curzon
(c) Lord Cornwallis
(d) Lord Dalhousie

8. Kodaikanal is locked on which wil range ?

(a) Palani
(b) Nilgiri
(c) Vindhyachal
(d) Aravali

9. Who is chairperson of national Women's organization ?

(a) Leela seth
(b) Mohini
(c) Jayanti patnaik
(d) Girija was

10. Who was the founder of daily " Nav jeevan"?

(a) Sampoornanand
(b) JL Nehru
(c) Sucheta Kriplani
(d) Madan Mohan Malviya

11. In which South American country does one find the Atacama Desert ?

(a) Chile
(b) Peru
(c) Brazil
(d) Columbia

12. Tipu sultan was the ruler of.

(a) Delhi
(b) Madras
(c) Agra
(d) Mysore

13. Jawaharlal Nehru award is for.

(a) Government service
(b) Literary work
(c) Social work
(d) international Understanding

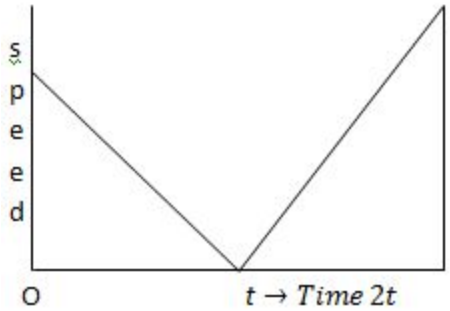
14. The famous khajuraho caves are situated in.

(a) Madhya Pradesh
(b) Maharashtra
(c) Rajasthan
(d) Chhattisgarh

15. Lignite is a type of

(a) Marble
(b) Sand
(c) Iron
(d) Coal

16. In the following time - speed graph, the shaded portion is.



(a) Average speed
(b) Distance covered
(c) Displacement
(d) Average acceleration

17. When a ray of light goes from a denser medium into a rare medium.

(a) It passes undeviated
(b) It deviates towards the normal
(c) It deviates away from the normal
(d) None of the above

18. What is periodic time of a second pendulum ?

(a) 1 s
(b) 4 s
(c) 3 s
(d) None of these

19. Length of the pointer of secound of a watch is 2 cm. The speed of the tip of the pointer is.

(a) 0.21 cm/s
(b) 2.1 cm/s
(c) 21 cm/s
(d) None of these

20. If the applied force and the displacement of body are inclined to each other at 90^0, then the work done is

(a) Infinity
(b) Maximum
(c) Zero
(d) Cannot be determined

21. The CGS unit of charge is.

(a) Statcoulomb
(b) ESU
(c) Both (a) and (b)
(d) None of these

22. With a fuse of 10 A and at 220 V, how many bulbs each of 200 W can be used safely?

(a) 11
(b) 10
(c) 20
(d) None of these

23. Which metal is abundantly found in Earth's crust ?

(a) Aluminium
(b) Potassium
(c) Iron
(d) Calcium

24. Hydraulically and economically, the best section of drains for large flow is.

(a) Rectangular
(b) Square
(c) Circular
(d) V-shaped

25. Oil and grease from sewage can be removed by

(a) Supplying oxygen
(b) Chlorination
(c) Filtration
(d) Flotation tanks

26. The best method of applying water to sandy undulating area is

(a) Free flooding
(b) Sub irrigation
(c) Furrow method
(d) Sprinkler irrigation

27. For national highway, the maximum speed in mountainous terrain is

(a) 120 km/h
(b) 100 km/h
(c) 80 km/h
(d) 50 km/h

28. Which reamer is suitable to drill in key-way groove?

(a) Straight Fluted Reamer
(b) Helical Fluted Reamer
(c) Pilot Reamer
(d) Adjustable Reamer

29. High gearing ratio can be obtained in which of the following gearings ?

(a) Bevel gearing
(b) Spur gearing
(c) Worm gearing
(d) Helical gearing

30. Metal of the rivet to rivet aluminium sheets should be

(a) Aluminium
(b) Copper
(c) Brass
(d) Soft iron

31. In automobile, magnets is mainly the.

(a) DC generator
(b) AC generator
(c) Transformer
(d) Capacitor

32. For correctness at 90^0 angle, which of the following gauges is used to test the threading tool of lathe ?

(a) **Screw pitch gaug**e
(b) Thread plug gauge
(c) Center gauge
(d) Thread ring gauge

33. 'Nitriding' is related to which of the following phenomena?

(a) Hardening
(b) Tempering
(c) Case hardening
(d) Normalization

34. On both the edges of the flat file, there are.

(a) Single cut teeth
(b) Double cut teeth
(c) Second cut teeth
(d) Diamond cut teeth

35. If the external resistance of the battery is much more higher than the, internal resistance, the best combination will be.

(a) Series
(b) Parallel
(c) Mixed
(d) None of the above

36. A General of army wants to from a solid square from 36562 armies. After arrangement,
he found some armies left. How many armies were left?

(a) 97
(b) 36
(c) 65
(d) 81

37. Ram,Shyam and Kamal together started a business in partnership. The ratio of their capital is 3 : 4 : 7. If their annual profit be Rs 21000, what will be the sphere of kamal the profit?

(a) Rs 15000
(b) Rs 12500
(c) Rs 1000
(d) Rs 10500

38. The difference between the compound interest and simple interest on a certain sum for 2 yr at the same rate of interest of 10% per annum is Rs 42. The sum is.

(a) Rs 4200
(b) Rs 42000
(c) Rs 420
(d) Rs 4500

39. A motorist travelled between two towns, which are 65 km apart, in 2 h and 10 min. Find the speed in m/min.

(a) 600
(b) 500
(c) 700
(d) 200

40. 8 men can finish a certain amount of work in 40 days. If 2 more men join with them, the days needed to do the same amount of work is

(a) 30
(b) 32
(c) 36
(d) 35

41. The radius of a circular pond is 14 m. A circular stage is made at the center of the pond whose diameter is 14 m, what is the area where water is present?

(a) 462 sq m
(b) 564 sq m
(c) 454 sq m
(d) 532 sq m

42. In an examination 65% of the total examinees passed. If the number of failures is 420, the total number of examinees are.

(a) 1500
(b) 1200
(c) 1000
(d) 1625

43. Out of an earning of Rs 720, Ram spends 65% His saving is.

(a) Rs 350
(b) Rs 390
(c) Rs 252
(d) Rs 316

44. A clock strikes once at 1 o'clock, twice at 2 0'clock, thrice at 3 o'clock and so on. What is the total number of triking in a day?

(a) 156
(b) 146
(c) 136
(d) 166

45. Find the largest number which when subtracted from 10,000, the remainder is divisible by 32, 36, 48 and 50.

(a) 8272
(b) 7408
(c) 9136

(d) 8674

46. A 150 m long train crosses a mile-stone in 15 s and a train of same length coming from opposite direction 12 s. The speed of other train is

(a) 36 km/h
(b) 54 km/h
(c) 50 km/h
(d) 45 km/h

47. To make a solid metallic cylinder of height 45 cm diameter 4 cm, how many solid spheres of diameter 6 cm will be melted ?

(a) 5
(b) 4
(c) 9
(d) 6

48. In a day how many times the hands of a clock are coincident?

(a) 22
(b) 25
(c) 24
(d) 30

49. A boat 48 km upstream in 8 hours and 36 km downstream in 6 hours. Then what is the speed of the boat in still water ?

(a) 16 km/h
(b) 1 km/h
(c) 8 km/h
(d) 6 km/h

50. There were 12 boys in a party . all boys shake hands with each other. How many handshakes took place ?

(a) 132
(b) 144
(c) 200
(d) 240