



18. Simple interest on a certain amount is $\frac{9}{16}$ of the principal. If the number representing the rate of interest in percent and time in years be equal, then time, for which principal is lent out is
- A) $5\frac{1}{2}$ years B) $6\frac{1}{2}$ years C) 7 years D) $7\frac{1}{2}$ years
19. Fresh watermelons contain 90% water by weight whereas dry watermelons contain 20% water by weight. What is the weight of dry watermelon obtained from 20 kgs of fresh watermelon ?
- A) 2.4 kg B) 2 kg
C) 2.5 kg D) Cannot be determined
20. A, B and C together earn Rs. 300 per day, whereas A and C together earn Rs. 188 and B and C together earn Rs. 152. The daily earning of C is
- A) Rs. 40 B) Rs. 68 C) Rs. 112 D) Rs. 150
21. $1307 \times 1307 = ?$
- A) 1601249 B) 1607249 C) 1701249 D) 1708249
22. If green means red, red means yellow, yellow means blue, blue means orange and orange means green, what is the colour of clear sky ?
- A) Blue B) Red C) Yellow D) Green
23. Lakshmi and Meena are Rohan's wives. Shalini is Meena's step-daughter. How is Lakshmi related to Shalini ?
- A) Sister B) Mother-in-law C) Mother D) Step-mother
24. Statements :
- I. The government has allowed private airline companies in India to operate to overseas destinations.
- II. The national air carrier has increased its flights to overseas destinations.
- A) Statement I is the cause and statement II is its effect
B) Statement II is the cause and statement I is its effect
C) Both the statements I and II are independent causes
D) Both the statements I and II are effects of independent causes
25. Abduction is related to Kidnapping in the same way as Larceny is related to ?
- A) Theft B) Crime C) Blackmail D) Sin



PART – B

26. If in a triangle the ratio of the angles is 1:2:3, then the ratio of sides is
A) 1:2:3 B) $1:\sqrt{3} : 2$ C) $1:1: \sqrt{2}$ D) $1: \sqrt{2}:\sqrt{3}$
27. 66 cubic centimetres of silver is drawn into a wire of 1 mm diameter. The length of the wire in metres will be
A) 84 B) 90 C) 168 D) 336
28. To use the line tool from the command panel, following abbreviation can be entered
A) lin B) li C) l D) ln.
29. A zero net energy building is one that
A) over the course of a year, generates energy onsite, using clean renewable resources, in a quantity equal to or greater than the total amount of energy consumed
B) does not have any electric lamps
C) has a state of art diesel generator sets that start in virtually zero time
D) efficiently uses bio-diesel for all building heating systems
30. The threshold for sound level that causes fatigue after prolonged exposure is approximately
A) 20 db B) 50 db C) 80 db D) 110 db
31. The gross built up area including basement parking, balconies, fire staircases etc. you can build on a plot measuring 2500 sq. meter with permissible FAR of 2.5 will be about
A) 6250 sq m B) 7500 sq m
C) 5250 sq m D) Based on soil condition
32. FSC certified timber is harvested from sustainable forests. What does FSC stand for ?
A) Forest Saving Community B) Friendly Stewardship Council
C) Forest Stewardship Council D) Fire Safety Council
33. Who is the architect of Shorabji Godrej Green business centre, Hyderabad ?
A) Satish Grover B) Karan Grover
C) B.V. Doshi D) Charles Chorea



34. Which of the following will make a shopping mall a truly gender sensitive design of international standards. ?
- A) Shops for women
 - B) Central Atrium
 - C) Well-equipped toilet with baby care service
 - D) Escalators
35. The most commonly used pump for lifting sewage is
- A) Air pressure pump
 - B) Centrifugal pump
 - C) Reciprocating pump
 - D) Pneumatic pump
36. World Environment day is
- A) 7th June
 - B) 5th June
 - C) 8th March
 - D) 29th June
37. When carbon monoxide, radon, formaldehyde, and nicotine found in a building's indoor air are all classified as
- A) ventilation components
 - B) hydrocarbon-fuel emissions
 - C) building-materials emissions
 - D) indoor-air contaminants
38. When using the Stretch tool in AUTOCAD
- A) Circles can be stretched into ellipses
 - B) The tool has no effect upon circles
 - C) Be careful because circles can be erased
 - D) Treat circles like any other part of the drawing being stretched.
39. HVAC stands for
- A) Heating, Vacuuming, and Air Conditioning
 - B) Heating, Ventilation, and Air Conditioning
 - C) Heavy Ventilation and Air Conditioning
 - D) Humidifier, Vacuum, Air ducts, and Cooling
40. World Water Day is
- A) 3rd March
 - B) 22nd March
 - C) 5th June
 - D) 1st April
41. A tree of 15 m height is required to shade the entire southern wall of the building of 5 m height. At a solar altitude of 45° , what should be the maximum distance of the tree from the building wall.
- A) 9 m
 - B) 15 m
 - C) 10 m
 - D) 7.072 m



42. Which one of the following is not true when selecting windows for a building :
- A) A high visible light transmission value indicates that more light can pass through
 - B) A high air leakage rate value indicates a tighter seal
 - C) A low solar heat gain coefficient value indicates that less heat is transmitted
 - D) A low heat transfer coefficient indicates better thermal value
43. Sustainable Architecture considers environmental, social, and _____ impacts of a building.
- A) technological
 - B) economic
 - C) political
 - D) legal
44. As per Clarence A. Perry, what would be the maximum radius for an ideal neighborhood design ?
- A) 2 miles
 - B) 5 miles
 - C) 1 mile
 - D) 0.5 miles
45. Municipal Solid Waste (Management & Handling) Rules came into force in the year
- A) 2015
 - B) 1998
 - C) 2000
 - D) 1997
46. Vaastu Shastra is believed to be a part of
- A) Yajur Veda
 - B) Saam Veda
 - C) Atharva Veda
 - D) Rig Veda
47. Calculate the time interval (T) taken at each landing of a passenger lift in a five-storey building with round trip time of 165 is
- A) 33s
 - B) 35s
 - C) 40s
 - D) 20s
48. Who is the first female architect to win Pritzker award ?
- A) Zaha Hadid
 - B) Maya Lin
 - C) Jeanne Gang
 - D) Rocio Romero
49. What will the cost of painting a cube of 125 cubic meter at the rate of Rs 10 per sq. meter ?
- A) Rs. 1,250
 - B) Rs. 1,500
 - C) Rs. 1,000
 - D) Rs. 1,525
50. What does LEED stand for ?
- A) Leadership in Energy Efficiency Design
 - B) Leadership in Energy and Environmental Design
 - C) Leadership in Energy Emissions Design
 - D) Leading Energy Efficient Design



51. Which of the following types of portable fire extinguisher is appropriate for fires generated by electrical equipment ?
- A) Loaded stream water base only
 - B) Pressure water base only
 - C) Carbon dioxide and dry chemical
 - D) Loaded stream water base, carbon dioxide, and dry chemical
52. For effective drainage the finished surface of flat roof should have a minimum slope of
- A) 1 in 100
 - B) 1 in 5
 - C) 1 in 20
 - D) 1 in 10
53. The age of a tree can be known by examining
- A) Cambium layer
 - B) Annular rings
 - C) Medullary rays
 - D) Heart wood
54. Which of the following is a rapidly renewable building material ?
- A) Bamboo
 - B) Clay bricks
 - C) Timber
 - D) Aluminum
55. DWF is an abbreviation for a file extension. The abbreviation stands for
- A) Drawing with files
 - B) Design with file
 - C) Design Web File
 - D) Design Web Format
56. The sides of a triangle are 9, 12 and 15 cm. Then this triangle is a
- A) right-angled triangle
 - B) acute-angled triangle
 - C) obtuse-angled triangle
 - D) equilateral triangle
57. Find out the odd pair
- A) Jean Nouvel – One central park
 - B) HOK – Denver International airport
 - C) Norman Foster – City hall, London
 - D) Diller Scofidio – Blur building, Switzerland
58. Ozone depletion is caused by
- A) carbon dioxide
 - B) methane
 - C) nitrous oxide
 - D) chlorofluorocarbon
59. Which phenomenon moves water from surface supplies to the atmosphere in the hydrologic cycle ?
- A) Precipitation
 - B) Gravity
 - C) Evaporation
 - D) Condensation



60. Who are the architects of India's Parliament House ?
- A) Sir Edwin Lutyens and Sir Gordon Leith
 - B) Sir Edwin Lutyens and Sir Christopher Wren
 - C) Sir Edwin Lutyens and Sir Herbert Baker
 - D) Sir Edwin Lutyens and Sir Sobhraj
61. Which one of the following has highest strength to weight ratio ?
- A) Aluminum B) Copper C) Mild Steel D) Silver
62. Ozone-depleting substances are commonly found in which products ?
- A) Paints and lacquers B) Refrigerants
 - C) Household appliances D) Cigarettes
63. Salvaging of bricks and stones from an old building for use in a new building is an example of what type of practice ?
- A) Reusing B) Reducing C) Recycling D) Retrofitting
64. Electric current is measured by
- A) Voltmeter B) Anemometer C) Altimeter D) Ammeter
65. Which of the following types of concrete construction is reinforced with tensioned high-strength steel-wire strands ?
- A) Tilt-up B) Prestressed C) Cast-in-place D) Precast
66. Which of the following is not a renewable energy source ?
- A) Oil B) Solar
 - C) Hydroelectric D) Biomass conversion
67. In case of climate change, poor countries may suffer greater damage than rich ones because they
- A) cause more pollution B) often have a wetter climate
 - C) have smaller adaptability D) have huge agricultural base
68. 'Adobe' is the term associated with
- A) Earth architecture B) Drawing software
 - C) Habitat D) Comfort cooling



SPACE FOR ROUGH WORK