

★ SSC JE 2024 – PYQ Based Full MCQ Question Paper (Set–1)

Total Questions: 100 | All MCQs with Options & Answers

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SECTION–A : GENERAL INTELLIGENCE & REASONING (25 MCQs)

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1. 7, 14, 28, 56, ?

- A) 84
- B) 98
- C) 112
- D) 126

✓ Correct Option: C

2. If RAM = 36, FAN = 21, then TAP = ?

- A) 32
- B) 33
- C) 34
- D) 35

✓ Correct Option: B

3. $6 \times 4 = 14$, $8 \times 5 = 21$, $10 \times 7 = ?$

- A) 27
- B) 28
- C) 29
- D) 30

✓ Correct Option: C

4. Odd one out

- A) Circle
- B) Triangle
- C) Square
- D) Cone

✓ Correct Option: D

5. If CAT = 24, DOG = ?

- A) 26
- B) 27
- C) 28
- D) 29

✓ Correct Option: C

6. Mirror image of LEFT will have L as—

- A) Same
- B) Reversed
- C) Rotated
- D) Inverted

✓ Correct Option: B

7. Cube : Volume :: Circle : ?

- A) Diameter
- B) Radius
- C) Area
- D) Circumference

✓ Correct Option: C

8. If BLACK = 27, WHITE = ?

- A) 40
- B) 42
- C) 45
- D) 47

✓ Correct Option: C

9. Which word cannot be formed from "TRANSPORT"?

- A) Star
- B) Part
- C) Sort
- D) Trap

✓ Correct Option: A

**10. If * = +, + = -, - = ÷

Then $6 * 2 + 4 - 2 = ?$ **

- A) 6
- B) 8

C) 10

D) 12

✓ Correct Option: B

11. Odd one out

A) 2

B) 3

C) 5

D) 15

✓ Correct Option: D

12. $12 : 144 :: 9 : ?$

A) 72

B) 81

C) 108

D) 112

✓ Correct Option: B

13. 2, 6, 12, 20, 30, ?

A) 36

B) 40

C) 42

D) 44

✓ Correct Option: C

14. If NORTH = 79, SOUTH = 91, EAST = 40, then WEST = ?

A) 46

B) 48

C) 49

D) 52

✓ Correct Option: C

15. Which is NOT a polygon?

A) Hexagon

B) Pentagon

C) Circle

D) Octagon

✓ Correct Option: C

16. 3, 9, 27, 81, ?

- A) 162
- B) 243
- C) 324
- D) 729

✓ Correct Option: B

****17. A is brother of B. B is sister of C. C is father of D.**

A is ____ of D? **

- A) Brother
- B) Uncle
- C) Father
- D) Cousin

✓ Correct Option: B

****18. X is father of Y. Y is mother of Z. Z is daughter of P.**

P is X's ____? **

- A) Daughter
- B) Daughter-in-law
- C) Sister
- D) Wife

✓ Correct Option: B

19. 15% of 200 + 25% of 80 = ?

- A) 40
- B) 45
- C) 50
- D) 55

✓ Correct Option: C

****20. Arrange in dictionary order:**

Star, Start, Stare, Sticker **

- A) Stare, Start, Star, Sticker
- B) Start, Sticker, Star, Stare
- C) Sticker, Star, Start, Stare
- D) Star, Stare, Start, Sticker

✓ Correct Option: A

****21. Find the missing number:**

4, 9, 19, 39, ?**

- A) 59
- B) 69
- C) 79
- D) 89

✓ **Correct Option: C**

22. Sum of letters in ROAD (A=1 form)

- A) 34
- B) 36
- C) 38
- D) 40

✓ **Correct Option: C**

23. Odd one out

- A) Knife
- B) Axe
- C) Hammer
- D) Saw

✓ **Correct Option: C**

****24. Complete the analogy:**

Doctor : Hospital :: Teacher : ?**

- A) Office
- B) School
- C) Class
- D) Book

✓ **Correct Option: B**

25. 5, 11, 23, 47, ?

- A) 83
- B) 95
- C) 99
- D) 101

✓ **Correct Option: D**

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SECTION-B : GENERAL AWARENESS (25 MCQs)

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26. GST was implemented from—

- A) 1 April 2016
- B) 1 July 2017
- C) 1 April 2015
- D) 1 July 2018

✓ **Correct Option: B**

27. ISRO was established in—

- A) 1956
- B) 1962
- C) 1969
- D) 1972

✓ **Correct Option: C**

28. Article 14 deals with—

- A) Right to Freedom
- B) Right to Freedom of Religion
- C) Right to Equality
- D) Right to Constitutional Remedies

✓ **Correct Option: C**

29. First Lok Sabha election held in—

- A) 1947
- B) 1949
- C) 1950
- D) 1952

✓ **Correct Option: D**

30. Milky Way is a—

- A) Planet
- B) Galaxy
- C) Star
- D) Solar system

✓ **Correct Option: B**

31. Vitamin responsible for blood clotting—

- A) A
- B) C
- C) K
- D) D

✓ Correct Option: C

32. RBI was established in—

- A) 1930
- B) 1935
- C) 1947
- D) 1950

✓ Correct Option: B

33. Bharatnatyam originated in—

- A) Kerala
- B) Karnataka
- C) Tamil Nadu
- D) Andhra Pradesh

✓ Correct Option: C

34. Study of earthquakes—

- A) Ecology
- B) Seismology
- C) Zoology
- D) Geology

✓ Correct Option: B

35. Iron Man of India—

- A) Gandhi
- B) Nehru
- C) Sardar Patel
- D) Ambedkar

✓ Correct Option: C

36. Largest river by volume in India—

- A) Ganga
- B) Yamuna
- C) Brahmaputra
- D) Godavari

✓ **Correct Option: C**

37. Indian Constitution came into force on—

- A) 15 August 1947
- B) 26 November 1949
- C) 26 January 1950
- D) 1 April 1951

✓ **Correct Option: C**

38. Father of White Revolution—

- A) MS Swaminathan
- B) Verghese Kurien
- C) Norman Borlaug
- D) Vikram Sarabhai

✓ **Correct Option: B**

39. World Environment Day—

- A) 1 March
- B) 5 July
- C) 5 June
- D) 10 June

✓ **Correct Option: C**

40. Basic unit of heredity is—

- A) Gene
- B) Cell
- C) Tissue
- D) Chromosome

✓ **Correct Option: A**

41. Largest desert—

- A) Sahara
- B) Gobi
- C) Atacama

D) Kalahari

✓ **Correct Option: A**

42. Currency of Japan—

A) Won

B) Yuan

C) Yen

D) Dollar

✓ **Correct Option: C**

43. Solar cell works on—

A) Hall effect

B) Photoelectric effect

C) Thermoelectric effect

D) Photovoltaic effect

✓ **Correct Option: D**

44. First Governor-General of India—

A) Warren Hastings

B) Lord Dalhousie

C) Lord William Bentinck

D) Lord Cornwallis

✓ **Correct Option: C**

45. Indian Parliament is—

A) Unicameral

B) Bicameral

C) Tricameral

D) None

✓ **Correct Option: B**

46. Purest form of iron—

A) Pig iron

B) Cast iron

C) Wrought iron

D) Steel

✓ **Correct Option: C**

47. Acid in lemon—

- A) Acetic acid
- B) Tartaric acid
- C) Citric acid
- D) Hydrochloric acid

✓ **Correct Option: C**

48. Longest National Highway—

- A) NH-2
- B) NH-7
- C) NH-27
- D) NH-44

✓ **Correct Option: D**

49. PMAY launched in—

- A) 2014
- B) 2015
- C) 2016
- D) 2017

✓ **Correct Option: B**

50. Headquarters of UNESCO—

- A) New York
- B) Geneva
- C) Paris
- D) London

✓ **Correct Option: C**

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SECTION—C : TECHNICAL (50 MCQs)

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CIVIL ENGINEERING (17 Questions)

51. Fineness modulus of coarse aggregate—

- A) 1–2
- B) 2–3
- C) 3–6

D) 6–8

✓ Correct Option: C

52. Slump test measures—

- A) Strength
- B) Durability
- C) Workability
- D) Setting time

✓ Correct Option: C

53. Standard consistency of cement—

- A) 20%
- B) 26%
- C) 33%
- D) 40%

✓ Correct Option: C

54. Initial setting time of cement—

- A) 10 min
- B) 20 min
- C) 30 min
- D) 60 min

✓ Correct Option: C

55. Water absorption of first-class brick—

- A) <10%
- B) <15%
- C) <20%
- D) <25%

✓ Correct Option: B

56. Le-Chatelier test determines—

- A) Strength
- B) Fineness
- C) Workability
- D) Soundness

✓ Correct Option: D

57. Most accurate levelling instrument—

- A) Dumpy level
- B) Tilting level
- C) Automatic level
- D) Digital level

✓ Correct Option: D

58. Specific gravity of cement—

- A) 2.5
- B) 3.15
- C) 4.0
- D) 4.5

✓ Correct Option: B

59. Young's modulus of steel—

- A) 1×10^5 N/mm²
- B) 2×10^5 N/mm²
- C) 3×10^5 N/mm²
- D) 4×10^5 N/mm²

✓ Correct Option: B

60. BOD is measured after—

- A) 1 day
- B) 3 days
- C) 5 days
- D) 7 days

✓ Correct Option: C

61. Darcy's law relates to—

- A) Flow through orifices
- B) Soil permeability
- C) Pipe friction
- D) Reservoir flow

✓ Correct Option: B

62. Weight of Proctor mould rammer—

- A) 1 kg
- B) 1.5 kg

C) 2.5 kg

D) 3 kg

✓ Correct Option: C

63. Peak discharge in hydrograph is—

A) Base flow

B) Recession limb

C) Crest

D) Rising limb

✓ Correct Option: C

64. Minimum clear cover for slab—

A) 10 mm

B) 15 mm

C) 20 mm

D) 25 mm

✓ Correct Option: C

65. Unit of workability—

A) N

B) N/m²

C) No unit

D) m³

✓ Correct Option: C

66. Critical path in CPM has—

A) Maximum float

B) Minimum duration

C) Zero float

D) Negative float

✓ Correct Option: C

67. Poisson's ratio for steel—

A) 0.15

B) 0.20

C) 0.30

D) 0.50

✓ Correct Option: C

MECHANICAL ENGINEERING (16 Questions)

68. Otto cycle efficiency depends on—

- A) Temperature
- B) Compression ratio
- C) Fuel
- D) Speed

✓ Correct Option: B

69. Device to remove moisture from air—

- A) Intercooler
- B) Separator
- C) Dryer
- D) Aftercooler

✓ Correct Option: C

70. CI engine works on—

- A) Petrol
- B) Diesel
- C) LPG
- D) CNG

✓ Correct Option: B

71. Mach number =

- A) Sound/Velocity
- B) Velocity/Sound
- C) Pressure/Velocity
- D) Velocity/Pressure

✓ Correct Option: B

72. Refrigerant in domestic fridge—

- A) R-22
- B) R-12
- C) R-134a
- D) Ammonia

✓ Correct Option: C

73. Heat transfer without medium—

- A) Conduction
- B) Convection
- C) Radiation
- D) Evaporation

✓ **Correct Option: C**

74. SI unit of torque—

- A) Joule
- B) N
- C) N-m
- D) Watt

✓ **Correct Option: C**

75. Non-renewable energy—

- A) Solar
- B) Wind
- C) Coal
- D) Biomass

✓ **Correct Option: C**

76. Lathe operation that reduces diameter—

- A) Facing
- B) Turning
- C) Boring
- D) Drilling

✓ **Correct Option: B**

77. Four-stroke engine completes a power cycle in—

- A) 180°
- B) 360°
- C) 540°
- D) 720°

✓ **Correct Option: D**

78. Bernoulli equation valid for—

- A) Compressible flow
- B) Incompressible flow

- C) Turbulent flow
 - D) Unsteady flow
 - ✓ **Correct Option: B**
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79. Superheated steam is—

- A) At saturation temperature
 - B) Below saturation temperature
 - C) Above saturation temperature
 - D) Condensed
 - ✓ **Correct Option: C**
-

80. Brake power measured by—

- A) Venturimeter
 - B) Calorimeter
 - C) Dynamometer
 - D) Manometer
 - ✓ **Correct Option: C**
-

81. Hardness test—

- A) Charpy
 - B) Brinell
 - C) Izod
 - D) Creep
 - ✓ **Correct Option: B**
-

82. Pascal is unit of—

- A) Work
 - B) Pressure
 - C) Velocity
 - D) Volume
 - ✓ **Correct Option: B**
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83. Conduction occurs mostly in—

- A) Liquids
- B) Solids
- C) Gases
- D) Vacuum
- ✓ **Correct Option: B**

ELECTRICAL ENGINEERING (17 Questions)**84. Power factor =**

- A) $\tan \phi$
- B) $\sin \phi$
- C) $\cos \phi$
- D) $1/\cos \phi$

✓ Correct Option: C

85. Transformer operates on—

- A) DC
- B) AC
- C) AC & DC
- D) None

✓ Correct Option: B

86. Phase difference in 3-phase system—

- A) 60°
- B) 90°
- C) 120°
- D) 180°

✓ Correct Option: C

87. Unit of electrical energy—

- A) Joule
- B) kWh
- C) Watt
- D) Ampere

✓ Correct Option: B

88. Fuse wire material—

- A) Copper
- B) Aluminium
- C) Tin-lead alloy
- D) Brass

✓ Correct Option: C

89. Standard frequency in India—

- A) 40 Hz
- B) 50 Hz
- C) 60 Hz
- D) 70 Hz

✓ **Correct Option: B**

90. Semiconductor—

- A) Copper
- B) Aluminium
- C) Silicon
- D) Iron

✓ **Correct Option: C**

91. Earthing resistance should be—

- A) High
- B) Very high
- C) Low
- D) Zero

✓ **Correct Option: C**

92. Ohm's law: $V = ?$

- A) IR
- B) I/R
- C) R/I
- D) $I \times 2R$

✓ **Correct Option: A**

93. Synchronous speed $N_s =$

- A) $120P/f$
- B) $f/120P$
- C) $120f/P$
- D) $P/120f$

✓ **Correct Option: C**

94. DC motor used in traction—

- A) Shunt motor
- B) Series motor

- C) Compound motor
- D) Synchronous motor

✓ **Correct Option: B**

95. Transformer core made of—

- A) Cast iron
- B) Copper
- C) Silicon steel
- D) Aluminium

✓ **Correct Option: C**

96. Short circuit test gives—

- A) Iron loss
- B) Copper loss
- C) Hysteresis loss
- D) Eddy loss

✓ **Correct Option: B**

97. Open circuit test gives—

- A) Copper loss
- B) Mechanical loss
- C) Iron loss
- D) Stray loss

✓ **Correct Option: C**

98. Ammeter measures—

- A) Current
- B) Voltage
- C) Resistance
- D) Reactance

✓ **Correct Option: A**

99. Capacitor stores—

- A) Voltage
- B) Charge
- C) Power
- D) Current

✓ **Correct Option: B**

100. Protection device in power system—

- A) Resistor
 - B) Capacitor
 - C) Relay
 - D) Switch
- ✓ **Correct Option: C**

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