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## TEST BOOKLET

Time allowed : 90 Minutes

Full marks : 85

Answer *all* the questions.

All questions carry 1 mark each.

TEST BOOKLET SERIES



005248

Serial No. ....

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উত্তর লেখার পূর্বে নিম্নলিখিত নির্দেশাবলী ভাল করে পড়ুন

## নির্দেশাবলী

- প্রশ্ন-পুস্তিকাতে 85টি Multiple Choice Answer Type প্রশ্ন দেওয়া আছে। নির্দেশ পাওয়ার পর প্রশ্ন-পুস্তিকার সব পৃষ্ঠা খুলে, সব পৃষ্ঠা/প্রশ্ন পর পর আছে কিনা বা ছাপা/ছেঁড়া/পুনরাবৃত্তি আছে কিনা দেখে নিন। যদি প্রশ্ন-পুস্তিকা এবং আপনাকে দেওয়া OMR উত্তরপত্রে কোথাও কোনো ত্রুটি থাকে সঙ্গে সঙ্গে পরীক্ষা তত্ত্বাবধায়ককে জানান এবং বদলে নিন।
- নির্দেশ পাওয়ার পর, OMR উত্তরপত্রে আপনার নিজের সম্বন্ধে যে সাধারণ তথ্যগুলি জানতে চাওয়া হয়েছে তা পূরণ করুন। উত্তরপত্রের 6 ক্রমিক সংখ্যায় প্রদত্ত ঘরে (BOX-এ) রোল নম্বর লিখুন এবং তার অনুরূপ বৃত্তগুলিকে ভরাট করুন। আপনি যদি নির্দেশমতো উত্তরপত্রে বিশদ তথ্যাদি এবং 6 ক্রমিক সংখ্যায় অনুরূপ বৃত্তগুলিকে ভরাট করতে ব্যর্থ হন এবং এর পরিণামে আপনার উত্তরপত্রের মূল্যায়নের ক্ষেত্রে যদি কোনো অসুবিধে হয় তার জন্য ব্যক্তিগতভাবে আপনি দায়ী থাকবেন।
- OMR উত্তরপত্রে যে 'Bar Code' ছাপা আছে তাতে কোনো দাগ দেওয়া বা কোনো বিকৃতি ঘটানো যাবে না, অন্যথায় প্রার্থীর প্রার্থীপদ বাতিল হয়ে যাবে। OMR উত্তরপত্রটি ভাঁজ করবেন না বা তাতে অযথা অন্য কোনো দাগ দেবেন না।
- প্রশ্ন-পুস্তিকার প্রত্যেক প্রশ্নের সঙ্গে 4টি করে উত্তর দেওয়া আছে। উত্তরগুলি A, B, C ও D এই 4টি ইংরেজি বর্ণ দিয়ে চিহ্নিত করা আছে। প্রতিটি প্রশ্ন মন দিয়ে পড়ুন এবং আপনার মতে 4টি উত্তরের মধ্যে সঠিক উত্তরটি বাছুন। OMR উত্তরপত্রে প্রতিটি প্রশ্নের ক্রমিক সংখ্যা অনুসারে নির্দিষ্ট বৃত্তটি সম্পূর্ণ গাঢ় করে ভরাট করুন। উত্তর চিহ্নিত করবার জন্য কেবলমাত্র কালো/নীল কালির বল পয়েন্ট পেন (Black/Blue Ink Ball Point Pen) ব্যবহার করুন।
- কোনো একটি নির্দিষ্ট প্রশ্নের উত্তর হিসাবে যদি উত্তরপত্রে একাধিক বৃত্ত ভরাট করা হয় তাহলে তা ভুল উত্তর হিসাবে পরিগণিত হবে। যদি কোনো প্রশ্নে 'B' সঠিক উত্তর হয়, তাহলে নিম্নে প্রদর্শিত উপায়ে চিহ্নিত করুন :  
সঠিক পদ্ধতি :  A  B  C  D  
ভুল পদ্ধতি :  A  B  C  D অথবা  
 A  B  C  D অথবা  
 A  B  C  D অথবা  
 A  B  C  D অথবা  
 A  B  C  D
- প্রশ্ন-পুস্তিকার শেষের ফাঁকা জায়গা প্রয়োজনে আপনার খসড়া কাজের (Rough Work) জন্য ব্যবহার করতে পারেন। পাতাটি প্রশ্ন-পুস্তিকা থেকে ছিঁড়ে ফেলবেন না।
- পরীক্ষার পর পরীক্ষা তত্ত্বাবধায়কের হাতে আপনার OMR উত্তরপত্রটি জমা দেবেন। প্রশ্ন-পুস্তিকাটি আপনার কাছে রেখে দেবেন।
- উত্তরপত্রটির পরিকল্পনা করা হয়েছে কম্পিউটারের মাধ্যমে মূল্যায়নের উদ্দেশ্যে। উপরের নির্দেশাবলী এবং OMR উত্তরপত্রে প্রদর্শিত নির্দেশাবলী যথাযথভাবে অনুসরণ না করলে এই মূল্যায়নের কাজ দুরূহ হয়ে উঠবে। এই নির্দেশাবলী পূর্ণভাবে অনুসৃত না হলে পরিণামে চূড়ান্ত ক্ষতি পরীক্ষার্থীরই হবে।
- কোনো পরীক্ষার্থীর মোবাইল ফোন, ক্যালকুলেটর অথবা কোনো প্রকারের ইলেকট্রনিক্স গ্যাজেট ব্যবহার করার অনুমতি নেই।
- Negative Marking** আছে। প্রতি 3টি ভুল উত্তরের জন্য 1 নম্বর কাটা যাবে।

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D-3

NS

PART I  
ENGINEERING (CIVIL)

Total Marks : 65

1. If 'H' is the height of wall between centers of supports, then the effective height of wall where concrete floors have a bearing on wall irrespective of the direction of span will be
  - (A) 0.75H
  - (B) 0.85H
  - (C) 1 H
  - (D) 1.5H
2. The maximum permissible eccentricity for no tension at the base of a gravity dam is
  - (A) B/2
  - (B) B/3
  - (C) B/4
  - (D) B/6
3. The space of the wall between facing and backing is known as
  - (A) Heading
  - (B) Jointing
  - (C) Hearting
  - (D) Plinth
4. Which of the following methods of plane table surveying is used to locate the position of an inaccessible point?
  - (A) Radiation
  - (B) Intersection
  - (C) Traversing
  - (D) Resection
5. Beam like horizontal structural flexural member, used to span over the opening of doors, windows is known as
  - (A) Lintel
  - (B) Beam
  - (C) Slab
  - (D) Column
6. The brick bond which shows alternate courses of header and stretchers is known as
  - (A) Flemish bond
  - (B) Facing bond
  - (C) Raking bond
  - (D) English bond
7. Burnt clay bricks are generally classified in
  - (A) 7 categories
  - (B) 8 categories
  - (C) 4 categories
  - (D) 6 categories
8. A 200mm thick wall made of modular bricks is 5m long between cross walls and 3.8m clear height between RCC slabs at top and bottom. The slenderness ratio of the wall is
  - (A) 15
  - (B) 19
  - (C) 20
  - (D) 25
9. For treatment of sewage we use
  - (A) Water tank
  - (B) Septic tank
  - (C) Gas tank
  - (D) Liquid tank
10. Sensitivity of soil can be defined as
  - (A) percentage of volume change of soil under saturated condition.
  - (B) ratio of compressive strength of unconfined undisturbed soil to that of soil in a remoulded state.
  - (C) ratio of volume of voids to volume of solids.
  - (D) None of the above
11. Fineness modulus of medium sand varies in between
  - (A) 2.6 to 2.9.
  - (B) 2.2 to 2.6
  - (C) 2.9 to 3.2
  - (D) 2.4 to 2.6
12. The splayed surface prepared on the top of an abutment or pier to receive the arch is known as
  - (A) Arch ring
  - (B) Intrados
  - (C) Skew back
  - (D) Springers

NS

D-4

13. Earthquake forces are calculated as per IS code

- (A) IS 1893
- (B) IS 1983
- (C) IS 1389
- (D) IS 9318

14. A free standing brick wall 20 cm thick is subjected to a wind pressure of  $75\text{kg/m}^2$ . The maximum height of wall from stability consideration is

- (A) 0.64m
- (B) 0.96m
- (C) 1.28m
- (D) 1.5m

15. A number of forces acting at a point will be in equilibrium if

- (A) their total sum is zero.
- (B) two resolved parts in two directions at right angles are equal.
- (C) sum of resolved parts in any two perpendicular directions are both zero.
- (D) all of them are inclined equally.

16. Size of right angled fillet weld is given by

- (A)  $0.707 \times \text{throat thickness}$
- (B)  $0.414 \times \text{throat thickness}$
- (C)  $2.0 \times \text{throat thickness}$
- (D) throat thickness

17. Rapid hardening cement is suitable for

- (A) hot weather concreting
- (B) cold weather concreting
- (C) rainy weather concreting
- (D) in every weather condition

18. Which of the following represent hardest grade of bitumen ?

- (A) 30/40
- (B) 60/70
- (C) 80/100
- (D) 100/120

19. The joint which is adopted when a timber piece is to be placed between two members which are previously fixed is known as

- (A) Bridle joint
- (B) Housed joint
- (C) Chase mortise joint
- (D) Bull joint

20. Bulking of sand means, increase in its

- (A) Area
- (B) Void
- (C) Volume
- (D) Porosity

21. The treatment of water is done by adding

- (A) Bleaching powder
- (B) Epoxy powder
- (C) Nylon powder
- (D) Metallic powder

22. In building construction D.P.C. stands for

- (A) Deal Polish Course
- (B) Damp Proof Course
- (C) Deep Pond Course
- (D) Direct Poor Conduct

23. A series of closely spaced contour lines represent a

- (A) Steep slope
- (B) Gentle slope
- (C) Uniform slope
- (D) Plane surface

24. Consider the following statements:

The use of relatively weak mortar

1. will accommodate movements due to loads and cracking if any, and will be distributed as thin hair cracks which are less noticeable or harmful.

2. will result in reduction of stresses due to differential expansion of masonry units.

- (A) 1 alone is correct.
- (B) 2 alone is correct.
- (C) Both 1 & 2 are correct.
- (D) Neither 1 nor 2 is correct.

D-5

NS

25. Bricks are obtained by molding  
(A) mortar  
(B) clay  
(C) sand  
(D) plastic
26. Standard BOD is measured at  
(A) 20° C- 1 day  
(B) 25° C- 3 day  
(C) 20° C- 5 day  
(D) 30° C- 5 day
27. In G+4 building, the 'G' stands for  
(A) Gird  
(B) Gross  
(C) Ground  
(D) Glass
28. For compaction of soil we use  
(A) Dumper  
(B) Power shovel  
(C) Back hoe  
(D) Road roller
29. Inorganic soils with low compressibility are represented by  
(A) MH  
(B) SL  
(C) ML  
(D) CH
30. By compacting the soil we improve  
(A) Bearing capacity of soil  
(B) The drainage capacity of soil  
(C) Spread of building  
(D) Eccentricity of building
31. In R.C.C. beam side reinforcement is provided if its depth exceeds  
(A) 300 mm  
(B) 500 mm  
(C) 700 mm  
(D) 750 mm
32. The effective length of R.C.C. column which is effectively held in position at both ends, restrained against rotation at one end will be  
(A) 0.65 L  
(B) 1.0 L  
(C) 0.8 L  
(D) 1.2 L
33. One kilo Pascal is equivalent to  
(A) 1000 N/mm<sup>2</sup>  
(B) 1000 N/cm<sup>2</sup>  
(C) 1000 N/m<sup>2</sup>  
(D) 1000 N/dm<sup>2</sup>
34. Maximum bending moment about the face of the column is one of the consideration to determine  
(A) depth of the footing  
(B) depth of the slab  
(C) width of the footing  
(D) width of column
35. Deriving the maximum benefit from minimum dimension of the room without cramping of the plan, is known as  
(A) Circulation  
(B) Grouping  
(C) Prospect  
(D) Roominess
36. Live load on roof and floors are considered as  
(A) point load.  
(B) uniformly distributed load.  
(C) combination of point load and uniformly distributed load.  
(D) inclined point load.

NS

D-6

37. For underwater concreting cement content as per code shall be at least
- 450 kg/ m<sup>3</sup>
  - 400 kg/ m<sup>3</sup>
  - 350 kg/ m<sup>3</sup>
  - 300 kg/ m<sup>3</sup>
38. When two forces, each equal to P, act at 90° to each other, then the resultant will be
- P
  - $P\sqrt{2}$
  - $P/\sqrt{2}$
  - 2P
39. The process by which timber is made sap free
- Seasoning
  - Studding
  - Moulding
  - Nosing
40. In bathroom and W.C., the term W.C. stands for
- Water Closet
  - Wash Counter
  - Water Counter
  - Waste Closet
41. Nominal mix concrete of M20 grade contains cement, sand, coarse aggregate in the ratio of
- 1:2:4
  - 1:1.5:3
  - 1:3:6
  - 1:4:8
42. A fully saturated soil is said to be
- One phase system
  - Two phase system with soil and air
  - Two phase system with soil and water
  - Three phase system
43. To measure distance we use
- Tape
  - Prismatic compass
  - Trough Compass
  - Spirit level
44. For the purpose of determining the seismic forces, India has been classified into how many zones?
- 3
  - 2
  - 4
  - 5
45. Which of the following is the weakness of the BAR chart?
- Interdependencies of activities
  - Project progress
  - Uncertainties
  - All of the above
46. The ridge formed by the intersection of two sloping surfaces having an exterior angle greater than 180° is known as
- Valley
  - Hip
  - Common rafter
  - Ridge
47. In normal circumstances where ordinary Portland cement is used, removal of form work for props to slab, spanning upto 4.5 m is done after
- 14 days
  - 28 days
  - 7 days
  - 3 days
48. Fittings that are placed at the ends of soil pipes or sillage pipes to prevent the passage of foul gases from the pipes to outside is known as
- One pipe system
  - Two pipe system
  - Three pipe system
  - Traps

49. Bottom surface of a window opening is known as  
(A) Corbel  
(B) Sill  
(C) Cornice  
(D) Coping
50. For designing masonry components of a structure, seismic forces provision in the design calculation is not necessary for buildings constructed in  
(A) Zone I only  
(B) Zone I & II  
(C) Zone I, II & III  
(D) Zone I, II, III & IV
51. For orientation of building in West Bengal best orientation is considered to be along east and west facing which direction ?  
(A) South  
(B) North  
(C) South-west  
(D) North-east
52. For a well conditioned triangle no angle should be less than  
(A)  $20^\circ$   
(B)  $30^\circ$   
(C)  $45^\circ$   
(D)  $60^\circ$
53. Moist curing for concrete made of ordinary Portland cement and placed under normal condition is done for at least  
(A) 7 days  
(B) 28 days  
(C) 14 days  
(D) 3 days
54. The unit of kinematic viscosity is  
(A)  $\text{gm/cm-sec}^2$   
(B)  $\text{dyne-sec/cm}^2$   
(C)  $\text{gm/cm}^2\text{-sec}$   
(D)  $\text{cm}^2/\text{sec}$
55. Which of the following solid waste disposal method is ecologically most acceptable?  
(A) Sanitary landfill  
(B) Incineration  
(C) Composting  
(D) Pyrolysis
56. The tool used by masons for spreading mortar  
(A) Trowel  
(B) Claw tool  
(C) Plumb bob  
(D) Square
57. Raft foundation is a type of  
(A) Deep foundation  
(B) Caisson foundation  
(C) Shallow foundation  
(D) Pile foundation
58. The process of joining two wooden pieces at an angle is known as  
(A) Mitring  
(B) Grounds  
(C) Rebating  
(D) Seasoning
59. The portion of structure which transfer load to the soil is known as  
(A) Beam  
(B) Slab  
(C) Column  
(D) Foundation

NS

D-8

60. After storage, the strength of cement  
 (A) decreases  
 (B) increases  
 (C) remains same  
 (D) may increase or decrease
61. A metallic tape is made of  
 (A) Steel  
 (B) Inver  
 (C) Linen  
 (D) Cloth & wires
62. This type of floor is mostly suitable or is used in *kutch* village house.  
 (A) Mud flooring  
 (B) Mosaic flooring  
 (C) Rubber flooring  
 (D) Glass flooring

63. Outside vertical members of framework of a shutter are known as  
 (A) Putty  
 (B) Louver  
 (C) Reveal  
 (D) Style
64. Agonic line is the line joining points having  
 (A) zero magnetic declination.  
 (B) minimum magnetic declination.  
 (C) maximum magnetic declination.  
 (D) same magnetic declination.
65. The Centre of Gravity of a triangle lies at the point of  
 (A) Concurrence of the medians  
 (B) Intersection of its altitudes  
 (C) Intersection of bisector of angles  
 (D) Intersection of diagonals

PART II  
ENGLISH

Total Marks : 13

66. Choose the appropriate collective noun for the given sentence:  
 A group of birds  
 (A) herd  
 (B) litter  
 (C) flock  
 (D) bevy

69. Choose the correct form of negative present perfect continuous tense from the given alternatives.  
 (A) I have been working.  
 (B) Have I been working?  
 (C) I have not been working.  
 (D) I not have been working.

Report the following sentences in direct/ indirect speech from the following for question no. 67 and 68:

70. Soma lives \_\_\_\_\_ a village. (Insert appropriate preposition)  
 (A) on  
 (B) in  
 (C) at  
 (D) to

67. Father said to me , "Go home at once".  
 (A) Father ordered me to go home at once.  
 (B) Father asked me to go home at once.  
 (C) Father requested me to go home at once.  
 (D) Father advised me to go home at once.
68. The child said, "what a beautiful sight!"  
 (A) The child exclaimed that what a beautiful sight.  
 (B) The child exclaimed with delight that the sight was very beautiful.  
 (C) The child exclaimed said what a beautiful sight.  
 (D) The child exclaimed said delight that the sight was very beautiful.

Choose the correct answer from the given alternatives for question no. 71 and 72:

71. He \_\_\_\_\_ till today.  
 (A) has not come  
 (B) did not come  
 (C) does not come  
 (D) do not come

72. Perhaps he \_\_\_\_\_ here tomorrow.  
 (A) reach  
 (B) shall reach  
 (C) will reach  
 (D) will be reach

73. Nearest meaning of 'Maiden' is  
 (A) Maid servant  
 (B) An unmarried girl  
 (C) Old woman  
 (D) Old man

74. Give the simple past form of the verb 'Be'.  
 (A) Am  
 (B) Been  
 (C) Was  
 (D) Is

Choose the correct phrasal verbs to replace the words underlined for question no. 75 and 76:

75. The price of petrol has increased.  
 (A) Gone up  
 (B) Gone down  
 (C) Go off  
 (D) Go over

76. Stop the fan.  
 (A) Turn on  
 (B) Turn out  
 (C) Turn off  
 (D) Turn up

Apply suitable adjectives to fill the blanks for question no. 77 and 78:

77. Lipika is \_\_\_\_\_ than Latika.  
 (A) beautiful  
 (B) more beautiful  
 (C) most beautiful  
 (D) loveliest

78. Which is the \_\_\_\_\_ continent?  
 (A) small  
 (B) smaller  
 (C) smallest  
 (D) more smaller

### PART III

#### GENERAL KNOWLEDGE

Total Marks : 07

79. At which of the following places, the Pole Star appears at the highest angle in the sky ?  
 (A) Sandakphu  
 (B) Falut  
 (C) Darjeeling  
 (D) Kalimpong

80. In which year, Kanyashree Prakalpa was launched?  
 (A) 2011  
 (B) 2012  
 (C) 2013  
 (D) 2014

81. Lassa fever which was recently in news occurs in  
 (A) West Africa  
 (B) South-East Asia  
 (C) Middle East  
 (D) Latin America
82. The Chairman of the Rajya Sabha is  
 (A) the Leader of the Opposition.  
 (B) nominated by the President of India.  
 (C) the Vice-President of India.  
 (D) nominated by the Vice-President of India.
83. In recently released Global Innovation Index (GII) 2018, India was ranked  
 (A) 70th  
 (B) 130th  
 (C) 57th  
 (D) 45th

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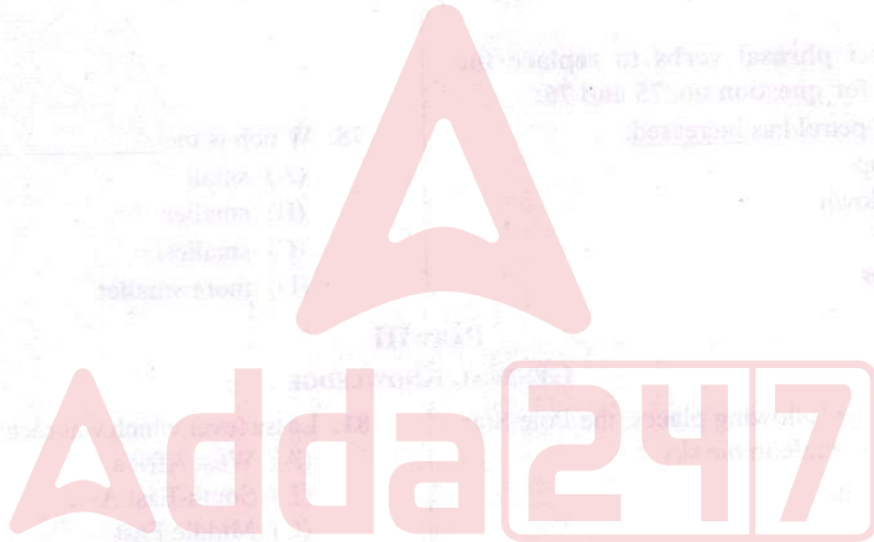
D-10

84. Who was recently appointed as Head of Mission and Chief Military Observer for UN Military Observer Group in India and Pakistan (UNMOGIP)?

- (A) Jose Eladio Alcain
- (B) Peter Thomson
- (C) Per Gustaf Lodin
- (D) Delali Johnson Sakyi

85. Tennis player Andy Murray belongs to which country?

- (A) Italy
- (B) France
- (C) Belgium
- (D) United Kingdom



D-11

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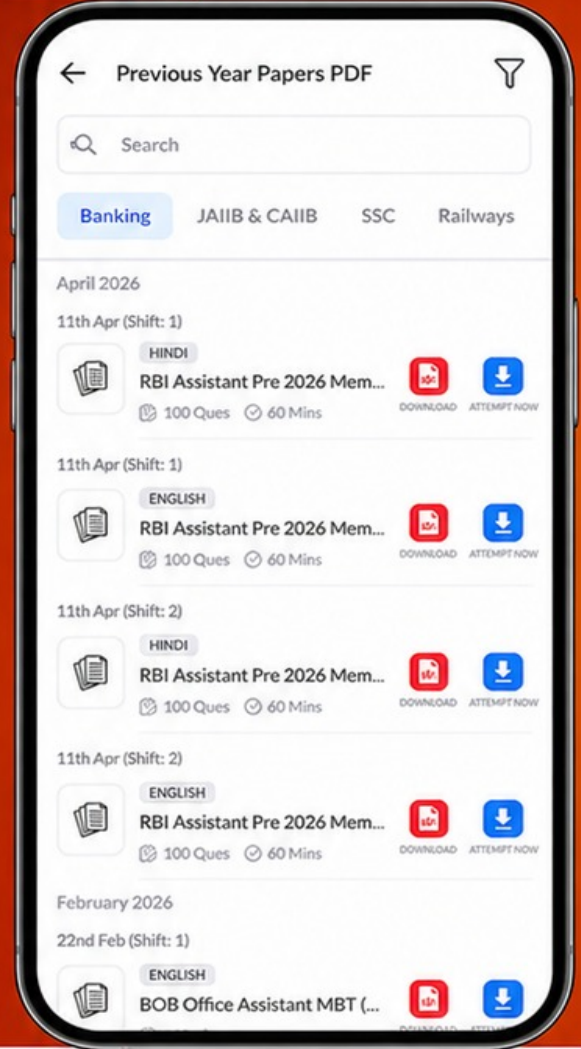
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