# COMMON P. G. ENTRANCE TEST – 2024 (CPET-2024)

**Test Booklet No. :** 00583

**Subject Code :** 35

**Hall Ticket No. :**

**Subject :** PMIR/IRPM

## TEST BOOKLET

*Time Allowed : **60** Minutes*

*Full Marks : **80***

### : INSTRUCTIONS TO CANDIDATES :

1. The Test Booklet contains **15** pages including the cover page and **80** (Question Nos. 1 to 80) multiple choice questions.
2. DO NOT break open the seal of the Test Booklet until the invigilator instructs to do so.
3. The candidates must check discrepancy, if any (like up-printed or torn or missing pages or missing questions) in the Test Booklet immediately after breaking the seal of the Test Booklet. If detected, the invigilator may be requested to replace the same.
4. Candidates are required to fill up and darken the **Hall Ticket No., Test Booklet Serial No.** and OMR Answer Sheet Serial No. in attendance sheet carefully. Wrongly filled in OMR Answer Sheet is liable for rejection.
5. Each question has four choices / answers marked (A), (B), (C), (D). Candidate has to select the most appropriate choice / answer to each question and darken the oval completely against the question number provided in the OMR Answer Sheet.
6. Indicate only one choice / answer from the options provided by darkening the appropriate oval in the OMR Answer Sheet. More than one response to a question shall be treated as a wrong answer.
7. Use only **Black Ball Point Pen** for darkening the oval for answering.
8. All the questions are compulsory and they carry equal marks. The total marks scored by a candidate depends on the number of correct choices / answers darkened in the OMR Answer Sheet. There will be no negative marking for wrong answers.
9. No candidate shall be allowed to leave the Examination Hall / Room till all OMR Answer Sheets have been collected by the invigilator.
10. On completion of the entrance test, the original OMR Answer Sheet be handed over to the invigilator. Candidates are allowed to take the second copy of the OMR Answer Sheet along with the used Test Booklet for reference.
11. Candidates are not allowed to carry any personal belongings including electronic devices such as scientific calculator, cell phones, headphones, earbuds, or any other type of devices that allow communication of any kind inside the Examination Room / Hall.
12. The candidates are advised not to scribble or make any mark on the OMR Answer Sheet except marking the answers at the appropriate places and filling up the details required. Rough work, if any, may be done in the blank sheet(s) provided at the end of the Test Booklet.
13. Any malpractice / use of unfair means will lead to your disqualification from the entrance test / admission process and may also lead to appropriate legal action as deemed fit.

**DO NOT OPEN THIS TEST BOOKLET UNTIL YOU ARE ASKED TO DO SO**

SEAL



aglasem.com

aglasem



aglasem.com

In each of the following questions (1 to 5), one word is followed by four alternative words. Choose the alternative that has most nearly the same meaning as that word.

1. Infructuous :

(A) Meaningless
(B) Unnecessary
(C) Redundant
(D) Fruitless

2. Decrepitude :

(A) Disease
(B) Coolness
(C) Crowd
(D) Feebleness

3. Avarice :

(A) Generosity
(B) Envy
(C) Greed
(D) Hatre

4. Flabbergast :

(A) Scared
(B) Embarrass
(C) Dumbfound
(D) Humiliation

5. Rescind :

(A) Change
(B) Revoke
(C) Repeat
(D) Reconsider

In each of the following questions (6 to 10), one word is followed by four alternative words. Choose the alternative that has most nearly the opposite meaning as that word.

6. Candid :

(A) Blunt
(B) Guarded
(C) Sincere
(D) Unconventional

7. Fuzzy :

(A) Misty
(B) Vague
(C) Clear
(D) Useful



aglasem.com

8. Raze :

(A) Conceit (B) Forge

(C) Encumber (D) Descry

9. Plunge :

(A) Dive (B) Duck

(C) Rise (D) Fall

10. Constrict :

(A) Diminish (B) Dilate

(C) Strangle (D) Downturn

In each of the following questions (11 to 15), idioms/phrase is followed by four alternative meanings. Choose the alternative that has most nearly the same meaning as the idiom/phase.

11. To have an axe to grind :

(A) A private end to serve (B) To fail to arouse interest

(C) To have no result (D) To work for both sides

12. To leave someone in the lurch :

(A) To come to compromise with someone

(B) Constant source of annoyance to someone

(C) To put someone at ease

(D) To desert someone at his difficulties

13. Let the grass grow under feet :

(A) Loitered around (B) Stayed out

(C) Sat unmoving (D) Moved away

14. To be lost in the cloud :

(A) To meet with one's death

(B) To be perplexed

(C) To be concealed from view

(D) To find oneself in a very uncomfortable position



aglasem.com

15. To draw the long bow :

(A) To overestimate oneself

(B) To put up high demands

(C) To demand a very high price

(D) To make an exaggerated statement

In each of the following questions (16 to 20), out of the four alternatives choose the correct one for the blank space that best fits the meaning of the sentence as a whole.

16. You don't need to get upset _____ these little things.

(A) For (B) About

(C) Off (D) Of

17. Do you know the reason _____ his absence ?

(A) On (B) Of

(C) For (D) About

18. The children were freed _____ the danger.

(A) Of (B) From

(C) With (D) In

19. Could you run _____ 10 copies of this hand-out, please ?

(A) At (B) Off

(C) On (D) Out of

20. He spends his time _____ the banks of the river.

(A) In (B) To

(C) At (D) On

21. If $45 - [28 - \{37 - (15 - X)\}] = 58$ then X equal to ?

(A) –29 (B) –19

(C) 19 (D) 29



aglasem.com

22. The expression $(11.98 \times 11.98 + 11.98 \times P + 0.02 \times 0.02)$ will be a perfect square for P equal to :

(A) 0.02 (B) 0.2

(C) 0.04 (D) 0.4

23. The product of the ages of Shyam and Ram is 240. If double the age of Ram is more than Shyam's age by 4 years, what is Ram's present age ?

(A) 10 (B) 12

(C) 15 (D) 16

24. A does half as much work as B in three fourth of the time. If together they take 18 days to complete the work, how much time will B alone take to do it ?

(A) 40 days (B) 45 days

(C) 50 days (D) 30 days

25. The least number which when divided by 16, 18, 20 and 25 leaves 4 as remainder in each case but when divided by 7 leaves no remainder is :

(A) 17004 (B) 18000

(C) 18002 (D) 18004

26. A father said his son, "I was as old as you are at present at the time of your birth." If the father's age is 38 now, the son's age 5 years back was :

(A) 19 (B) 38

(C) 33 (D) 14

27. It was Sunday on Jan 1, 2006. What was the day of the week Jan 1, 2010 ?

(A) Sunday (B) Saturday

(C) Friday (D) Wednesday

28. Given that $(1^2 + 2^2 + 3^2 + \ldots\ldots\ldots + 10^2) = 385$, then the value of $(2^2 + 4^2 + 6^2 + \ldots\ldots\ldots + 20^2)$ is equal to ?

(A) 770 (B) 1155

(C) 1540 (D) $(385)^2$



aglasem.com

29. An error 2% in excess is made while measuring the side of a square. The percentage of error in calculated area of square is :

(A) 2%
(B) 2.02%
(C) 4%
(D) 4.04%

30. If 18 people bind 900 books in 10 days, how many people will be required to bind 660 books in 12 days ?

(A) 22
(B) 14
(C) 13
(D) 11

31. If A exceeds B by 60% and B is less than C by 20%, then A : C is ?

(A) 32 : 25
(B) 25 : 32
(C) 8 : 5
(D) 4 : 5

32. One fill pipe A is 3 times faster than second fill pipe B and takes 32 minutes less than the fill pipe B. When will the cistern be full if both pipes are opened together ?

(A) 6 min
(B) 8 min
(C) 12 min
(D) 10 min

33. A and B invest in a business in the ratio 3 : 2. If 5% of the total profit goes to charity and A's share is Rs. 855, the total profit is :

(A) 1500
(B) 500
(C) 2000
(D) 1000

34. If a train runs at 40 km/hour, it reaches its destination late by 11 minutes. But if it runs at 50 km/ hour, it is late by 5 minutes only. The correct time (in minutes) for the train to complete the journey is :

(A) 13
(B) 15
(C) 21
(D) 19



aglasem.com

35. The traffic lights at three different road crossings change after 24 seconds, 36 seconds and 54 seconds respectively. If they all change simultaneously at 10 : 15 : 00 AM, then at what time will they again change simultaneously ?

(A) 10 : 16 : 54 AM
(B) 10 : 18 : 36 AM
(C) 10 : 17 : 02 AM
(D) 10 : 22 : 12 AM

36. A merchant purchases a wrist watch for 450 and fixes its list price in such a way that after allowing a discount of 10%, he earns a profit of 20%. Then the list price of the watch is :

(A) 550
(B) 585
(C) 600
(D) 650

37. From 6 men and 4 ladies, a committee of 5 members is to be formed. In how many ways can this be done, if the committee is to include at least one lady ?

(A) 246
(B) 290
(C) 340
(D) 315

38. Three unbiased coins are tossed. What is the probability of getting at most two heads ?

(A) 1/4
(B) 3/4
(C) 3/8
(D) 7/8

39. A clock started at noon. By 10 minutes past 5, the hour hand has turned through :

(A) 145 degree
(B) 150 degree
(C) 155 degree
(D) 160 degree

40. The average temperature of Wednesday, Thursday and Friday was 400° C. The average of Thursday, Friday and Saturday is 410° C. If the temperature on Saturday was 420° C, what was the temperature on Wednesday ?

(A) 39° C
(B) 44° C
(C) 38° C
(D) 41° C



aglasem.com

41. Dog : Bark : : Goat : ?

(A) Grunt
(B) Bray
(C) Howl
(D) Bleat

42. Find the odd man out :

(A) Tortoise
(B) Duck
(C) Whale
(D) Crow

43. Introducing Rukmani, Vijay said, "She is the mother of the son of only brother of my wife." What is the relation of Rukmani's husband with Vijay ?

(A) Brother-in-law
(B) Father
(C) Father-in-law
(D) Son

44. If in a code language, TIGER is written as SUHJFHDFQS. What will be written as GIDFQSACRT in that language ?

(A) HERBS
(B) HORSE
(C) HOESR
(D) HORTF

45. While coming home from school at 5 p.m., Ketaki's shadow was falling to her left. In which direction is the school from her home ?

(A) South
(B) South-West
(C) North
(D) North-East

46. Find the missing number in the series : 5, 6, 9, 15, ?, 40

(A) 21
(B) 25
(C) 27
(D) 33

47. In a code language 25397 is written as 33478. Find the code for 46572.

(A) 55683
(B) 54353
(C) 54653
(D) 55353

48. B is as twice old as A but twice younger than F. C is half age of A but twice older than D. Who is the second oldest ?

(A) B
(B) F
(C) C
(D) A



aglasem.com

49. Ramesh ranks 13th in the class of 33 students. There are 5 students below Suresh rank wise. How many students are there between Ramesh and Suresh ?

(A) 6
(B) 13
(C) 14
(D) 15

50. Which two signs should be interchanged to make the given equation correct, $14 + 4 \div 5 - 18 \times 2 = 25$ ?

(A) ÷ and +
(B) × and ÷
(C) × and –
(D) × and +

51. If ACID is written as 1C3D, PAMPER is written as P1MP2R, then how will BOMBAY be written ?

(A) B4MB1Y
(B) B3MB1Y
(C) B5MB2Y
(D) B4MB2Y

52. If 'air' is called 'green', 'green' is called 'red', 'red' is called 'sea', 'sea' is called 'blue', 'blue' is called 'water' and 'water' is called 'pink', then what is the color of grass ?

(A) Green
(B) Air
(C) Red
(D) Pink

53. Find the odd one out :

(A) ABYZ
(B) CDWX
(C) GHTV
(D) EFUV

54. A clock when seen in a mirror shows 11 : 25. What is the correct time ?

(A) 12 : 25
(B) 12 : 35
(C) 1 : 25
(D) 1 : 35

55. Pick the word which is different from others : Diarrhoea, Jaundice, Measles, Cholera, Typhoid ?

(A) Jaundice
(B) Measles
(C) Cholera
(D) Typhoid



aglasem.com

56. Find the missing term in the series : LXF, MTJ, NPN, OLR, _____.

(A) PHV
(B) PIU
(C) PJW
(D) PKX

57. Six friends B, D, F, H, J and L are sitting around a circular table facing towards the centre (not necessarily in the same order). B is to the immediate right of L. D is second to the left of J. F is second to the left of H. L is second to the right of H. Who is sitting third to the left of F ?

(A) D
(B) B
(C) J
(D) L

58. If FLOWER is coded as 14 and DISTASTE is coded as 18, then how will BUREAUCRAT be coded as ?

(A) 22
(B) 18
(C) 20
(D) 28

59. In a certain code language, 'it be pee' means 'dogs are blue', 'sik hee' means 'large horses' and 'pee mit hee' means 'horses are pigs'. How is 'pig' written in this code ?

(A) hee
(B) see
(C) sik
(D) mit

60. How many such pairs are there in the word 'SENDING' each of which has as many letters between its two letters as there are between them in the English alphabets ?

(A) One
(B) Two
(C) Three
(D) Four

61. 'World Economic Outlook' is the flagship publication of which institution ?

(A) International Monetary Fund
(B) World Bank
(C) Asian Development Bank
(D) World Economic Forum

62. Which city is the host of the world's first Women's Kabaddi League ?

(A) Chennai
(B) Dubai
(C) Pune
(D) Dhaka



aglasem.com

63. Who is the first woman officer to be appointed as Director General of the Central Industrial Security Force (CISF) ?

(A) Shubhra Singh
(B) Nina Singh
(C) Binita Thakur
(D) Roli Singh

64. Recently, which player has become India's number one chess player, surpassing Vishwanathan Anand ?

(A) R. Praggnanandhaa
(B) Ding Lire
(C) Gukesh D.
(D) Vidit Gujrathi

65. 'Sarkar Gaon Ke Dwar' initiative, recently seen in the news, is launched by which state ?

(A) Uttarakhand
(B) Madhya Pradesh
(C) Uttar Pradesh
(D) Himachal Pradesh

66. The Black Galaxy or 'Invisible galaxy' was recently discovered in which country ?

(A) Turkey
(B) Italy
(C) China
(D) Israel

67. What kind of disease is 'Whooping cough', recently seen in news ?

(A) Bacterial disease
(B) Viral disease
(C) Fungal disease
(D) Parasitic disease

68. Which movie won the best Feature Film award at the 69th National Film Awards in 2023 ?

(A) Rocketry : The Nambi Effect
(B) Gangubai Kathiawadia
(C) Sarpatta Parambarai
(D) RRR

69. Which Nobel Prize is awarded in 2023 for creation of 'Quantum dots' ?

(A) Physics
(B) Chemistry
(C) Physiology
(D) Biology



aglasem.com

70. What is the theme of 'Vigilance Awareness Week 2023' ?

(A) Vigilant India, Prosperous India

(B) Say no to Corruption, Commit to the Nation

(C) Stay Vigilant ; Stay Honest

(D) Corruption free India for a developed nation

71. 'International Literacy Day' is observed on which day ?

(A) July 8

(B) August 8

(C) September 8

(D) October 8

72. Who is the author of the world famous children's fiction, "Alice's Adventures in Wonderland" ?

(A) Lewis Carroll

(B) T. S. Eliot

(C) Rita Williams-Garcia

(D) Roald Dahl

73. Who won the best actress award at Dadasaheb Phalke International Film Festival Awards 2024 ?

(A) Vidya Balan

(B) Alia Bhatt

(C) Rani Mukerji

(D) Deepika Padukone

74. Pragyan rover of the Chandrayaan-3 mission, has confirmed the presence of which element on the moon's surface ?

(A) Potassium

(B) Sulphur

(C) Sodium

(D) Chlorine

75. What is the place of India in the Asian Games 2023 medal-table ?

(A) Third

(B) Fourth

(C) Fifth

(D) Sixth

76. 'PM-PRANAM' is associated with which Union Ministry ?

(A) Ministry of Culture

(B) Ministry of Defence

(C) Ministry of Chemicals and Fertilisers

(D) Ministry of Rural Development



aglasem.com

77. Which University has secured First Position in Khelo India University Games 2024 ?

(A) Chandigarh University
(B) Punjab University
(C) Lovely Professional University
(D) Guru Nanak Dev University

78. 'Swavlamban 2.0' is the indigenisation roadmap of which institution ?

(A) IRDAI
(B) Indian Navy
(C) NITI Aayog
(D) RBI

79. UIDAI has partnered with which institution for 'National Centre of Excellence in Technology for Internal Security' initiative ?

(A) IIT Bombay
(B) IIT Madras
(C) NIT Tiruchirappalli
(D) NIT Warangal

80. Where was the India's first indoor athletics and aquatic centre inaugurated ?

(A) Bhubaneswar
(B) Chennai
(C) New Delhi
(D) Jaipur

aglasem



aglasem.com

## SPACE FOR ROUGH WORK



aglasem.com

SEAL

aglasem

aglasem.com