

COMMON P. G. ENTRANCE TEST – 2020

Test Booklet No. :

DEPT. OF HIGHER EDUCATION, GOVT. OF ODISHA
TEST BOOKLET

Subject Code **28**

Subject **LIBRARY & INFORMATION
SCIENCE**

Time Allowed : 90 Minutes

Full Marks : 70

: INSTRUCTIONS TO CANDIDATES :

1. IMMEDIATELY AFTER THE COMMENCEMENT OF THE EXAMINATION, YOU SHOULD CHECK THAT THIS TEST BOOKLET **DOES NOT** HAVE ANY UNPRINTED OR TORN OR MISSING PAGES OR ITEMS ETC. IF SO, GET IT REPLACED BY A COMPLETE TEST BOOKLET.
2. You have to enter your **Hall Ticket No.** on the Test Booklet in the Box provided alongside. **DO NOT** write *anything else* on the Test Booklet.
3. **YOU ARE REQUIRED TO FILL UP & DARKEN HALL TICKET NO. & TEST BOOKLET NO. IN THE ANSWER SHEET AS WELL AS FILL UP TEST BOOKLET SERIAL NO. & ANSWER SHEET SERIAL NO. IN THE ATTENDANCE SHEET CAREFULLY. WRONGLY FILLED UP ANSWER SHEETS ARE LIABLE FOR REJECTION AT THE RISK OF THE CANDIDATE.**
4. **This Test Booklet contains 70 items (questions). Each item (question) comprises four responses (answers). You have to select the correct response (answer) which you want to mark (darken) on the Answer Sheet. In case, you feel that there is more than one correct response (answer), you should mark (darken) the response (answer) which you consider the best. In any case, choose ONLY ONE response (answer) for each item (question).**
5. You have to mark (darken) all your responses (answers) **ONLY** on the **separate Answer Sheet** provided by using **BALL POINT PEN (BLUE OR BLACK)**. See instructions in the Answer Sheet.
6. All items (questions) carry equal marks. All items (questions) are compulsory. Your total marks will depend only on the number of correct responses (answers) marked by you in the Answer Sheet. **There is no negative marking.**
7. **After you have completed filling in all your responses (answers) on the Answer Sheet and after conclusion of the examination, you should hand over to the Invigilator the Answer Sheet issued to you. You are allowed to take with you the candidate's copy / second page of the Answer Sheet along with the Test Booklet, after completion of the examination, for your reference.**
8. Sheets for rough work are appended in the Test Booklet at the end.

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

1. If you are sitting on the beach facing the sea on a sunny afternoon, the local wind will be :
 - (A) Striking your back and continuing to the sea because of sea breeze effect.
 - (B) Towards you from the sea because of the sea breeze effect.
 - (C) Towards you from the sea because of the lapse rate effect.
 - (D) Striking your back and continuing to the sea because of the land breeze effect.
2. The temperature at which water vapours condense, is the :
 - (A) Relative humidity
 - (B) Condensation point
 - (C) Dew point
 - (D) Evaporation point
3. Which of the following is the general formula for saturated hydrocarbons ?
 - (A) C_nH_{2n+2}
 - (B) C_nH_{2n-2}
 - (C) C_nH_{2n+1}
 - (D) C_nH_{2n-1}
4. When sun is shining vertically over tropic of Capricorn ?
 - (A) Days and nights are equal over the entire globe
 - (B) Nights are longer than days in the Southern hemisphere
 - (C) Nights are equal to 24 hours over the Arctic region
 - (D) Days and nights are of 12 hour duration over Antarctica
5. Which of the following statements is not true ?
 - (A) Evaporation is directly proportional to temperature
 - (B) Evaporation is more over land than ocean
 - (C) Evaporation is higher over warm surface than on cold surface
 - (D) Evaporation reduces the amount of heat available in the atmosphere thereby reducing the temperature
6. The major characteristic of correlation analysis is to seek out :
 - (A) Differences among variables
 - (B) Variations among variables
 - (C) Association among variables
 - (D) Regression among variables

7. Which one of the following denotes a 'true' fruit ?
- (A) When only the thalamus of the flower grows and develops into a fruit
 - (B) When only the receptacle of the in flower develops into a fruit
 - (C) When fruit originates only from the calyx of a flower
 - (D) When only the ovary of the flower grows into a fruit
8. Questions like "What is knowledge?" and "What is truth?" are mainstays in the branch of philosophy known as _____.
- (A) Logic
 - (B) Metaphysics
 - (C) Epistemology
 - (D) Aesthetics
9. The law of demand means :
- (A) As the quantity demanded rises, the price rises
 - (B) As the price rises, the quantity demanded rises
 - (C) As the price rises, the quantity demanded falls
 - (D) As supply rises, the demand rises
10. The gas commonly used in advertisement sign-boards and decorative lights is :
- (A) Hydrogen
 - (B) Neon
 - (C) Nitrogen
 - (D) Chlorine
11. A customer writes to a bank, 'Kindly send me a statement of my transactions in my savings bank account 'A' during the last three months'. In terms of communication it will be called :
- (A) Input
 - (B) Message
 - (C) Output
 - (D) Feedback
12. What do you mean by Gross National Product ?
- (A) The total value of goods and services produced in the country
 - (B) The total value of all transactions in the country
 - (C) Depreciation in the total value of goods and services produced in the country
 - (D) The total value of goods and services produced in the country and net factor income from abroad

13. In the context of communication, usual sequence is :
- (A) Language → Communication → Society → Civilization
 - (B) Communication → Society → Language → Civilization
 - (C) Communication → Language → Society → Civilization
 - (D) Language → Society → Communication → Civilization
14. If REASON is coded as 5 and GOVERNMENT as 9, then what is the code for ACCIDENT ?
- (A) 6
 - (B) 7
 - (C) 8
 - (D) 9
15. Which of the following are web browsers ?
- 1. Yahoo
 - 2. Google
 - 3. Netscape
 - 4. Internet Explorer
- (A) 1 and 2 are correct
 - (B) 2 and 3 are correct
 - (C) 1 and 4 are correct
 - (D) 3 and 4 are correct
16. What is Dry Ice?
- (A) Ice cubes and saw dust
 - (B) Ice cubes and salt
 - (C) Solid carbon dioxide
 - (D) Liquid nitrogen
17. Which of the following is not a form of carbon ?
- (A) Graphite
 - (B) Charcoal
 - (C) Soot
 - (D) Hematite
18. The Mobile Application Protocol (MAP) typically runs on top of which protocol ?
- (A) SNMP (Simple Network Management Protocol)
 - (B) SMTP (Simple Mail Transfer Protocol)
 - (C) SS7 (Signalling System 7)
 - (D) HTTP (Hyper Text Transfer Protocol)

19. The famous statement "An unexamined life is not worth living" is attributed to _____.
- (A) Aristotle (B) John Locke
(C) Socrates (D) Plato
20. Identify the correct sequence in the process of cell division :
- (A) Metaphase – Prophase – Anaphase – Telophase
(B) Prophase – Metaphase – Anaphase – Telophase
(C) Anaphase – Telophase – Prophase – Metaphase
(D) Prophase – Anaphase – Metaphase – Telophase
21. Identify the correct sequence of economic organisation :
- (A) Gathering and hunting – Fishing – Pastoralism – Cultivation
(B) Fishing – Gathering and hunting – Cultivation – Pastoralism
(C) Pastoralism – Cultivation – Gathering and hunting – Fishing
(D) Cultivation – Pastoralism – Fishing – Gathering and hunting
22. The stock of "Ammonium Nitrate" which was resulted in large explosion in Lebanon is a _____ chemical compound.
- (A) Solid (B) Liquid
(C) Gaseous (D) Plasma
23. Which of the following is the most commonly used chemical for ripening of mangoes in India ?
- (A) Potassium Iodide (B) Silver Iodide
(C) Ammonium Nitrate (D) Calcium Carbide
24. When a tubelight breaks, a cracking sound is produced because _____ ?
- (A) Pressure inside the lamp is less than atmospheric pressure
(B) Pressure inside the lamp is more than atmospheric pressure
(C) The lamp is filled with reactive gases
(D) The lamp is filled with mercury vapour
25. CAD stands for :
- (A) Computer Automatic Decode
(B) Computer Aided Design
(C) Computer Automatic Design
(D) Computer Aided Decode

26. Assertion (A) : Carbon dioxide is one of the important greenhouse gases.
Reason (R) : It is largely produced by respiratory function of animals and plants.
- (A) Both A and R are correct and R is the correct explanation of A.
(B) Both A and R are correct but R is not the correct explanation of A.
(C) Both A and R are not correct.
(D) A is not correct but R is correct.
27. Today is Monday. After 61 days, it will be :
- (A) Tuesday (B) Monday
(C) Sunday (D) Saturday
28. Which company recently showed its intention to buy TikTok ?
- (A) Google (B) Microsoft
(C) Facebook (D) Apple
29. The Tropic of Cancer does not pass through which of these Indian states ?
- (A) Madhya Pradesh (B) Odisha
(C) Rajasthan (D) None of these
30. Fathometer is used to measure :
- (A) Earthquake (B) Rainfall
(C) Ocean depth (D) Sound Intensity
31. Unix Operating System is generally known as :
- (A) Single User Operating System
(B) Single User Application Program
(C) Multi User Operating System
(D) General Application
32. Which of the following statements are true about Kabir ?
1. He was a contemporary of Akbar
 2. His works became the part of Adi Grantha
 3. Kabir composed his poems in Khari Boli
- Choose the right answer from the following code given below :
- (A) 1, 2, 3
(B) 3 only
(C) 2 only
(D) None of these

33. If a job is to be completed in 10 days, it requires 270 persons. If 180 persons take up the same job, they will finish it in :
- (A) 15 days (B) 18 days
(C) 27 days (D) 12 days
34. According to the third law of motion, action and reaction :
- (A) Always act on the same body
(B) Always act on different bodies in opposite directions
(C) Have same magnitude and direction
(D) Act on either body at normal to each other
35. A cell will swell up if :
- (A) The concentration of water molecules in the cell is higher than the concentration of water molecules in surrounding medium.
(B) The concentration of water molecules in surrounding medium is higher than water molecules concentration in the cell.
(C) The concentration of water molecules is same in the cell and in the surrounding medium.
(D) Concentration of water molecules does not matter.
36. Seema visited a Natural Gas Compressing Unit and found that the gas can be liquefied under specific conditions of temperature and pressure. While sharing her experience with friends she got confused. Help her to identify the correct set of conditions :
- (A) Low temperature, low pressure
(B) High temperature, low pressure
(C) Low temperature, high pressure
(D) High temperature, high pressure
37. What does Price flooring mean ?
- (A) Shortage (B) Surpluses
(C) Equilibrium (D) None of these
38. To an astronaut in space, the sky will appear to be :
- (A) Blue (B) Black
(C) Violet (D) Red

39. Which of the following statements are correct ?
1. Micro economy deals with the study of aggregate behaviour in an economy.
 2. Macro economy deals with the study of economic issues in small, individual details.
- (A) Only 1 (B) Only 2
(C) Both 1 and 2 (D) Neither
40. Who among the following is credited with the making of the first authoritative Dictionary of the English Language ?
- (A) Bishop Berkeley (B) Samuel Johnson
(C) Edmund Burke (D) Horace Walpole
41. Dr. Ambedkar called which of the following fundamental rights as the most important article of the Constitution, without which Indian Constitution would be a nullity ?
- (A) Right to Constitutional Remedies
(B) Right to Freedom of Speech and Expression
(C) Right to Religious and Cultural Freedom
(D) Right against Exploitation
42. Which one of the following terms does not apply to the Vice-President of India ?
- (A) He may be removed by Impeachment.
(B) He may resign by writing to the President.
(C) He may be removed by a Rajya Sabha Resolution and agreed to by the Lok Sabha.
(D) He may seek re-election for any number of times.
43. Which of the following statements is/are correct with regard to Citizenship in India ?
1. When an Indian citizen voluntarily acquires the citizenship of other country, his/her Indian citizenship automatically gets terminated.
 2. If a territory becomes a part of India, all the people of that territory automatically become citizens of India.
- Which of the above statements given above is/are correct ?
- (A) 1 only (B) 2 only
(C) Both 1 and 2 (D) Neither 1 nor 2

44. Which one of the following is not a Constitutional Body ?
(A) Union Public Service Commission (B) Finance Commission
(C) University Grants Commission (D) Election Commission
45. The human liver performs all of the following functions, except :
(A) Production of hormones (B) Detoxification of toxins
(C) Storage of glycogen (D) Formation of bile
46. According to Marx, various forms of exploitative mode of production have been :
(A) Slavery, feudalism and capitalism
(B) Slavery, barbarism and capitalism
(C) Slavery, bourgeoisie and capitalism
(D) None of these
47. Assertion (A) : When lightning strikes, the sound is heard a little after the flash is seen.
Reason (R) : The velocity of light is greater than that of the sound.
(A) A is true but R is false
(B) Both A and R are true and R is the correct explanation of A
(C) A is false but R is true
(D) Both A and R are true but R is not the correct explanation of A
48. Assertion (A) : Transparency in administration is a salient feature of good governance.
Reason (R) : The R.T.I. Act, 2005 has contributed in ensuring good governance.
(A) Both (A) and (R) are correct and (R) is the correct explanation of (A)
(B) Both (A) and (R) are correct, but (R) is not the correct explanation of (A)
(C) (A) is true, but (R) is false
(D) (A) is false, but (R) is true
49. Assertion (A) : AIDS does not have a vaccine.
Reason (R) : The AIDS virus alters its genetic code.
(A) A is true but R is false
(B) Both A and R are true and R is the correct explanation of A
(C) A is false but R is true
(D) Both A and R are true but R is not the correct explanation of A
50. Principle of operation of an electric water heater is by :
(A) Convection (B) Radiation
(C) Conduction (D) Induction

51. Sociometry is a tool to measure child's :
- (A) Intelligence level (B) Behaviour problems
(C) Relationship with peers (D) Relationship with parents

52. Which of the following foods are rich in omega 3 fatty acids ?

- (a) Lard
(b) Butter
(c) Fatty fish
(d) Olive oil
(e) Mustard seeds
(f) Walnut

Codes:

- (A) (a), (b), (c) (B) (c), (e), (f)
(C) (e), (f), (b) (D) (f), (c), (d)

53. Language development in children is promoted through :

- (i) Story telling
(ii) Conversation
(iii) Social participation
(iv) Solitary play

Codes :

- (A) (i) and (iii) are correct
(B) (ii) and (iii) are correct
(C) (i), (ii) and (iii) are correct
(D) (ii), (iii) and (iv) are correct

54. _____ is known as "the father of scientific management".

- (A) Fredrick W. Taylor (B) Henry Fayol
(C) Robert Owen (D) None of them

55. Assertion (A) : Standing in a static posture is fatiguing.

Reason (R) : Blood circulation is affected in the extremities while standing for work.

- (A) (A) is false but (R) is true
(B) (A) is true and (R) is false
(C) Both (A) and (R) are true, but (R) is not the complete explanation
(D) Both (A) and (R) are false

56. How are colours classified ? Indicate the correct sequence :
- (A) Secondary, primary, intermediate, tertiary, quaternary
 - (B) Binary, primary, intermediate, quaternary, tertiary
 - (C) Primary, secondary, intermediate, tertiary, quaternary
 - (D) Binary, secondary, intermediate, tertiary, quaternary
57. Arrange constituent processes of observational learning in correct sequence :
- (i) Production
 - (ii) Motivation
 - (iii) Retention
 - (iv) Attention

Codes:

- (A) (iii), (iv), (i) and (ii)
 - (B) (iv), (iii), (i) and (ii)
 - (C) (ii), (i), (iii) and (iv)
 - (D) (i), (ii), (iii) and (iv)
58. Which of the following are visual aids ?
- (i) Black Board
 - (ii) Posters
 - (iii) Public address system
 - (iv) Flash cards
- (A) (i), (iii) and (iv) are correct
 - (B) (i), (ii) and (iv) are correct
 - (C) (ii) and (iv) are correct
 - (D) (i), (ii) and (iii) are correct
59. Arrange the right sequence in decreasing order of protein content in food :
- (i) Bread
 - (ii) Cheese
 - (iii) Butter
 - (iv) Boiled egg
- (A) i, ii, iii, iv
 - (B) ii, iii, iv, i
 - (C) iv, i, ii, iii
 - (D) iv, ii, i, iii

65. On the keyboard of computer each character has an "ASCII" value which stands for :
- (A) American Stock Code for Information Interchange
 - (B) American Standard Code for Information Interchange
 - (C) African Standard Code for Information Interchange
 - (D) Adaptable Standard Code for Information Change
66. National Library Week in India is being celebrated annually since :
- (A) 1914
 - (B) 1933
 - (C) 1950
 - (D) 1968
67. Which one of the following is a volatile memory ?
- (A) RAM
 - (B) CD-ROM
 - (C) Hard Disk
 - (D) Floppy Disk
68. Raj sold an item for Rs. 6,384 and incurred a loss of 30%. At what price should he have sold the item to have gained a profit of 30% ?
- (A) Rs. 14,656
 - (B) Rs. 11,856
 - (C) Rs. 13,544
 - (D) None of these
69. Pollination is best defined as :
- (A) Transfer of pollen from another to stigma
 - (B) Germination of pollen grains
 - (C) Growth of pollen tube in ovule
 - (D) Visiting flowers by insects
70. Nandita scored 80 percent marks in five subjects together, viz. Hindi, Science, Maths, English and Sanskrit, wherein the maximum marks of each subject were 105. How many marks did Nandita score in Science if she scored 89 marks in Hindi, 92 marks in Sanskrit, 98 marks in Maths and 81 marks in English ?
- (A) 60
 - (B) 75
 - (C) 65
 - (D) 70



SPACE FOR ROUGH WORK