

**COMMON P.G. ENTRANCE TEST - 2021 (CPET-2021)**

Test Booklet No. 144933

HIGHER EDUCATION DEPARTMENT, GOVT. OF ODISHA

**TEST BOOKLET**

Subject Code : 028

Entrance Subject : **Library and Information Science**

Time Allowed: 90 Minutes

Full Marks : 70

**INSTRUCTIONS TO CANDIDATES**

1. Please do not open this Question Booklet until asked to do so.
2. Check the completeness of the Question Booklet immediately after opening.
3. Enter your **Hall Ticket No.** on the Test Booklet in the box provided alongside. Do not write anything else on the Test Booklet.
4. 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.
5. Each question has four answer options marked (A), (B), (C) & (D).
6. Answers are to be marked on the Answer Sheet, which is provided separately.
7. Choose the most appropriate answer option and darken the oval completely, corresponding to (A), (B), (C) or (D) against the relevant question number.
8. Use only **Blue/Black Ball Point Pen** to darken the oval for answering.
9. Please do not darken more than one oval against any question, as scanner will read such markings as wrong answer.
10. Each question carries equal marks. There will be no negative marking for wrong answer.
11. Electronic items such as calculator, mobile, etc., are not permitted inside the examination hall.
12. Don't leave the examination hall until the test is over and permitted by the invigilator.
13. The candidate is required to handover the original OMR sheet to the invigilator and take the question booklet along with the candidate's copy of OMR sheet after completion of the test.
14. Sheet for rough work is appended in the Test Booklet at the end.

1. Where is Thumba Equatorial Rocket Launching Station (TERLS) situated?
  - (A) Andhra Pradesh
  - (B) Karnataka
  - (C) Odisha
  - (D) Kerala
  
2. Sowmya Krishnan walked 20 m towards the north. Then she turned right and walks 30 m. Then she turns right and walks 35 m. Then she turns left and walks 15 m. Finally she turns left and walks 15 m. In which direction and how many meters is she from the starting position?
  - (A) 15 m West
  - (B) 30 m East
  - (C) 30 m West
  - (D) 45 m East
  
3. Where did Kalinga War take place?
  - (A) Ujjaini
  - (B) Mandu
  - (C) Trivandrum
  - (D) Dhauri
  
4. First battle of Panipat was fought between?
  - (A) Babur and Lodi
  - (B) Mughal and British
  - (C) Akbar and Hemu
  - (D) Akbar and Lodi
  
5. Given below are two premises (a and b). From those two premises four conclusions (i), (ii), (iii) and (iv) are drawn. Select the code that states the conclusion/conclusions drawn validly (taking the premises singularly or jointly).
 

Premises:

  - ((A) All bats are mammals.
  - ((B) No birds are bats.

Conclusions:

  - (i) No birds are mammals.
  - (ii) Some birds are not mammals.
  - (iii) No bats are birds.
  - (iv) All mammals are bats.

Code:

  - (A) (i) only
  - (B) (i) and (ii) only
  - (C) (iii) only
  - (D) (iii) and (iv) only

6. Detergents are prepared by the action of  $H_2SO_4$  on which of the following?
- (A) Cholesterol
  - (B) Lauryl alcohol
  - (C) Cyclohexanol
  - (D) p-Nitrophenol
7. In a certain code language, "TURTLE" is written as "RRNRIA". How is "LOYALS" written in that code language?
- (A) ULJOPY
  - (B) YOKLJV
  - (C) JLUYIO
  - (D) VJLOIP
8. A cardboard is placed on a glass of water, and a ten paise coin is placed on the cardboard. If the cardboard is flicked suddenly in the direction parallel to its surface, then the cardboard flies away, but the coin falls in the glass.
- The behaviour of the coin can be explained by which among the following properties?
- (A) Momentum
  - (B) Acceleration
  - (C) Inertia
  - (D) Friction
9. Laws made by the executives are called
- (A) Rule of Law
  - (B) Administrative Law
  - (C) Delegated legislation
  - (D) Preferred legislation
10. Bain and Co. with which company has released a report called 'Women Entrepreneurship in India-Powering the economy with her'?
- (A) Google
  - (B) Microsoft
  - (C) Twitter
  - (D) Facebook
11. India won the first hockey gold at
- (A) Tokyo
  - (B) Mumbai
  - (C) Amsterdam
  - (D) Los Angeles

12. A person runs up two flights of stairs instead of walking up. The person feels more tired because \_\_\_\_?
- He does more work when he runs in comparison to when he walks
  - His power output is greater when he runs in comparison to when he walks
  - His gravitational force is greater when he runs in comparison to when he walks
  - He has more inertia when he runs in comparison to when he walks
13. Which one of the following statements is not correct?
- Tropic levels are the energy levels within food
  - In deep oceans primary production is almost high
  - Plant are the primary consumers
  - The decomposers are called saprotrophs
14. At which session of the Indian National Congress, the procession was jointly led by the Congress President, Motilal Nehru and the Muslim League President, Hakim Ajmal Khan?
- Lucknow session, 1916
  - Amritsar session, 1919
  - Calcutta session, 1920
  - Ahmedabad session, 1921
15. Weakness in muscles and increase in the fragility of red blood cells is caused due to the \_\_\_\_\_.
- Deficiency of vitamin E
  - Deficiency of vitamin D
  - Deficiency of vitamin C
  - Deficiency of vitamin A
16. Which one will have maximum numbers of water molecules?
- 18 molecules of water
  - 1.8 grams of water
  - 18 grams of water
  - 18 moles of water
17. Which among the following key is used for checking grammar and spelling?
- F3
  - F5
  - F7
  - F9

18. A postman walked 20 m straight from his office, turned right and walked 10 m. After turning left he walked 10 m and after turning right walked 20 m. He again turned right and walked 70 m. How far he is from his office?
- (A) 50 m  
(B) 40 m  
(C) 60 m  
(D) 20 m
19. Who participates in the Presidential election?
- (A) Elected members of both Houses of Parliament  
(B) Elected and nominated members of the State Legislative Assembly  
(C) Members of all Union Territories  
(D) All of the above
20. Which state recently launched Nadu Nedu scheme to improve quality standards in government hospitals?
- (A) Odisha  
(B) Andhra Pradesh  
(C) Karnataka  
(D) Tamil Nadu
21. Which among the following is a typical Monsoon vegetation in India?
- (A) Tropical evergreen forests  
(B) Tropical deciduous forest  
(C) Tropical thorn forests  
(D) Sub Tropical evergreen forests
22. Why the star appears to move from east to west?
- (A) Because all stars move from east to west  
(B) Because the earth rotates from west to east  
(C) Because the earth rotates from east to west  
(D) Because the background of the stars moves from west to east
23. Which of the following statements are correct regarding respiration in plants?
- I. Respiration is the process of releasing energy from food.  
II. Respiration takes place individually in all parts of the plants like stem, roots, leaves etc.  
III. The rate of respiration is slow in plants whereas it is faster in humans and animals.
- Select the correct answer from the codes given below:
- (A) I and III are correct  
(B) I and II are correct  
(C) I, II and III are correct  
(D) None of the above

24. When was Indian National song sung for the first time?  
(A) 1896 session of the Indian National Congress  
(B) 1857 revolt  
(C) 1919 - Jallianwala Bagh Massacre  
(D) None of the above
25. This statement about enzymes is true  
(A) enzymes accelerate reactions by lowering the activation energy  
(B) enzymes are proteins whose three-dimensional form is key to their function  
(C) enzymes do not alter the overall change in free energy for a reaction  
(D) all of these
26. The constituents of photochemical smog responsible for eye irritation are  
(A) SO<sub>2</sub> and NO<sub>2</sub>  
(B) SO<sub>2</sub> and SPM  
(C) SO<sub>2</sub> and O<sub>3</sub>  
(D) HCHO and PAN
27. Which of the following represents billion characters?  
(A) Terabytes  
(B) Megabytes  
(C) Kilobytes  
(D) Gigabytes
28. A man completes a journey in 10 hours. He travels first half of the journey at the rate of 21 km/hr and second half at the rate of 24 km/hr. Find the total journey in km.  
(A) 220 km  
(B) 224 km  
(C) 230 km  
(D) 234 km
29. The 52nd amendment to the constitution of India is most closely related to \_\_\_:  
(A) Extension of Reservations in Government Jobs  
(B) Provision for special status to Tripura  
(C) Provisions for increasing age of eligibility for voting  
(D) Provisions against political defections
30. A good communicator begins his/her presentation with a:  
(A) Complex question  
(B) Non-sequitur  
(C) Repetitive phrase  
(D) Ice-breaker

31. Which of the following neighbour states share their boundaries with Odisha?  
 (A) Jharkhand, Chattisgarh, West Bengal, Andhra Pradesh  
 (B) Jharkhand, Chattisgarh, West Bengal, Telangana  
 (C) Jharkhand, Chattisgarh, West Bengal, Bihar  
 (D) Jharkhand, Chattisgarh, West Bengal, Assam
32. A Pendulum Clock, whose pendulum is made up of a steel rod, will become slow if \_\_ :  
 1. Temperature rises  
 2. Taken to moon  
 3. Taken from equator to pole  
 Choose the correct option from the codes given below:  
 (A) Only 1  
 (B) Only 1 & 2  
 (C) Only 2 & 3  
 (D) Only 1, 2 & 3
33. Which of the following food sources has the highest levels of vitamin C?  
 (A) Parsley  
 (B) Broccoli  
 (C) Black currants  
 (D) Orange juice
34. King Kharavela's works are mentioned in which of the following cave's inscription in Odisha?  
 (A) Rani Gumpha  
 (B) Hati Gumpha  
 (C) Vyaghra Gumpha  
 (D) Ananta Gumpha
35. What will be the condition of the progeny if the father is normal, while the mother has one gene for haemophilia and one gene for colour blindness on one of the X chromosomes?  
 (A) Only daughters are haemophilic and colour blind  
 (B) Both sons and daughters will be haemophilic and colour blind  
 (C) 50 per cent haemophilic and colour blind sons and 50% normal sons  
 (D) 50 per cent haemophilic colour blind daughters and 50% colour blind daughters
36. For which one of the following, 'Diodes' are generally used for?  
 (A) Rectification  
 (B) Filtration  
 (C) Modulation  
 (D) Amplification

37. As a person working in internet banking environment, why you should be aware of the "Dictionary attack"?
- It is used to inject worms or viruses in the system
  - It is used to determine a password
  - It is used to access customer's account by determining other details
  - It is used for stealing info from the Credit Card
38. The ratio between the speeds of two trains is 7:8. If the second train runs 400 kms in 4 hours, then the speed of the first train is:
- 70 km/hr
  - 75 km/hr
  - 84 km/hr
  - 87.5 km/hr
39. What does "Capitalism" refer to?
- The use of market
  - Government ownership of capital
  - Private ownership of capital goods
  - Private ownership of homes and cars
40. Oscar awards are also known as:
- Gate awards
  - Humphrey awards
  - Academy awards
  - Grammy awards
41. Which of the following water bodies separates the Andaman from the Nicobar?
- 11° Channel
  - Gulf of Mannar
  - 10° Channel
  - Andaman Sea
42. Which among the following Radio frequencies are used around the world in air navigational system?
- Very Low Frequency (VLF)
  - Very High Frequency (VHF)
  - Tetrahertz Radiation (THF)
  - Ultra High Frequency (UHF)
43. During the germination of seeds, the seed coat ruptures due to
- massive imbibition of water
  - differentiation of cotyledons
  - a sudden increase in cell division
  - massive glycolysis in cotyledons and endosperm



44. One Terabyte (TB) is equal to?
- (A) 1000 GB
  - (B) 1042 GB
  - (C) 1024 MB
  - (D) 1012 GB
45. Which of the following will not act as an antacid?
- (A) sodium hydrogen carbonate
  - (B) magnesium hydroxide
  - (C) sodium carbonate
  - (D) aluminium carbonate
46. One of the most widely used drugs in medicine index is
- (A) methyl salicylate
  - (B) ethyl salicylate
  - (C) acetyl salicylic acid
  - (D) o-hydroxy benzoic acid
47. A continuous variable can take:
- (A) Any value including fractions
  - (B) Any value without numbers
  - (C) Any qualitative assessment
  - (D) Any superficial statement
48. If 6 men and 8 boys can do a piece of work in 10 days and, 26 men and 48 boys can do the same in 2 days. Then, the time taken by 15 men and 20 boys to do the same type of work will be?
- (A) 5 days
  - (B) 6 days
  - (C) 4 days
  - (D) 7 days
49. Who has been appointed as the 48th Chief Justice of India?
- (A) Justice NV Ramana
  - (B) Justice Uday Lalit
  - (C) Justice Arvind Bobde
  - (D) Justice Nariman

50. One morning after sunrise, Nandita and Ravi were sitting in a lawn with their backs towards each other. Nandita's shadow fell exactly towards her left-hand side. Which direction was Ravi facing?
- (A) East  
(B) West  
(C) North  
(D) South
51. Which one of the following statements is correct about biotic resources and abiotic resources?
- (A) They are non-renewable and all the biotic resources are renewable  
(B) All the abiotic resources are non-renewable but some of the biotic resources are non-renewable  
(C) Some of the abiotic resources are renewable but the biotic resources are renewable  
(D) Some of the abiotic resources are renewable and some of the biotic resources are non-renewable
52. Two flat mirrors are placed at an angle of  $60^\circ$  from each other. How many images will be formed of a candle placed in between them?
- (A) Three  
(B) Four  
(C) Five  
(D) Six
53. Various methods used by plants to get rid of their waste products are:
- I. Gaseous waste through stomata and lenticels.
  - II. Stored solid and liquid waste by shedding leaves, peeling of bark and falling of fruits.
  - III. By secreting waste in the form of gum and resins.
- Which of the following statements is/are correct?
- (A) I and II are correct  
(B) II and III are correct  
(C) I and III are correct  
(D) I, II and III are correct.

54. What was another name of 'Quit India movement'?
- (A) Home Rule Movement
  - (B) Khilafat Movement
  - (C) August Kranti
  - (D) Swadeshi Movement
55. Which of the following statements regarding Isolation during COVID-19 is/are correct?
1. It is used for people suffering from COVID-19 symptoms or who have tested positive for the virus.
  2. In isolation means being separated from other people, mainly in a medical facility where you can receive clinical care.
- (A) Only 1
  - (B) Only 2
  - (C) Both 1 and 2
  - (D) Neither 1 nor 2
56. Solder is an alloy of
- (A) Cu, Mn and Ni
  - (B) Pb and Bi
  - (C) Sn and Pb
  - (D) Cu and Sn
57. Who among the following considered as the 'father of artificial intelligence'?
- (A) JP Eckert
  - (B) Charles Babbage
  - (C) Lee De Forest
  - (D) John McCarthy
58. Soumya bought 20 kg of tea at Rs. 18 per kg and 15 kg of tea at Rs. 25 per kg. What profit did he get when he mixed the two varieties together and sold it at Rs. 30 per kg?
- (A) 42.85%
  - (B) 35.12%
  - (C) 40.12%
  - (D) 35%

59. Which of the following powers does not possessed by a Governor?
- (A) Diplomatic Powers
  - (B) Executive powers
  - (C) Judicial powers
  - (D) Legislative powers
60. Which personality/ institution won the Nobel Peace Prize 2020?
- (A) Jacinda Ardern
  - (B) Greta Thunberg
  - (C) World Health Organization
  - (D) UN World Food Programme
61. Which of the following part of India receives the first monsoon in summer?
- (A) Western Ghats
  - (B) Himalayas
  - (C) Meghalaya Plateau
  - (D) Eastern Ghats
62. Consider the following statements:
1. A body at rest has no inertia.
  2. A body in free fall in vacuum has constant acceleration.
  3. A body in free fall in vacuum has diminishing kinetic energy.
- Which among the above is/are correct statements?
- (A) Only 1 & 2
  - (B) Only 2
  - (C) Only 2 & 3
  - (D) 1, 2 & 3
63. How does Coronavirus transmit?
- (A) When a person sneezes or coughs, droplets spread in the air or fall on the ground and nearby surfaces.
  - (B) If another person is nearby and inhales the droplets or touches these surfaces and further touches his face, eyes, or mouth, he or she can get an infection.
  - (C) If the distance is less than 1 meter from the infected person.
  - (D) All the above are correct.

64. Which of the following river does not originate in Indian territory?
- (A) Mahanadi
  - (B) Satluj
  - (C) Brahmaputra
  - (D) Ganga
65. Iodine deficiency can cause
- (A) Goitre
  - (B) Thyroid cancer
  - (C) Solitary thyroid nodules
  - (D) Thyroiditis
66. The book titled 'Loktantra Ke Swar', is the compilation of speeches of which Indian leader?
- (A) Venkaiah Naidu
  - (B) Ram Nath Kovind
  - (C) Narendra Modi
  - (D) Arun Jaitley
67. When you save to this, your data will remain intact even when the computer is turned off.
- (A) RAM
  - (B) Primary storage device
  - (C) Mother board
  - (D) Secondary storage device
68. The Directive Principles of State Policy can be amended by which of the following procedures:
- (A) Simple majority of the Parliament
  - (B) Special majority of the Parliament
  - (C) Special majority of the Parliament and consent of States
  - (D) None of the above

69. If the code of ALLAHABAD is DPQGOIKKO, then the code of BENGULURU will be
- (A) ESBTBDIMF
  - (B) MBDBFEIST
  - (C) EISMBTDBF
  - (D) ESBDFBTMI

70. Arun starts a business with investment of Rs. 1200. Birju and Chirag join the business with some investment after 3 months and 6 months respectively. If at the end of year profit is divided in ratio of 2:3:5, then how much money did Birju invest?

- (A) 1800
- (B) 3500
- (C) 2400
- (D) 3600

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