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**AE—56—2018**

**FACULTY OF SCIENCE**

**B.Sc./B.C.A. (C.S.) (Second Year) (Third Semester) EXAMINATION**

**NOVEMBER/DECEMBER, 2018**

**(CBCS Pattern)**

**COMPUTER SCIENCE**

**(Logical Reasoning)**

**(Friday, 7-12-2018)**

**Time : 2.00 p.m. to 5.00 p.m.**

*Time—3 Hours*

*Maximum Marks—75*

- N.B. :—*
- (i) All questions are compulsory.
  - (ii) Question Nos. 1 to 5 are of 1 mark each.
  - (iii) Question Nos. 6 to 15 are of 2 marks each.
  - (iv) Question Nos. 16 to 25 are of 3 marks each.
  - (v) Question Nos. 26 to 30 are of 4 marks each.
  - (vi) No negative marking.

1. KM5, IP8, GS11, EV14, ?

- (a) BX91
- (b) BY17
- (c) CY17
- (d) None of these

2. If 'eye' is called 'hand', 'hand' is called 'mouth', 'mouth' is called 'ear', 'ear' is called 'nose' and 'nose' is called 'tongue', with which of the following would a person hear ?

- (a) Eye
- (b) Nose
- (c) Ear
- (d) Tongue

3. A and B are brothers. C and D are sisters. A's son is D's brother. How is B related to C ?

- (a) Father
- (b) Brother
- (c) Grandfather
- (d) Uncle

P.T.O.

4. One day, Ravi left home and cycled 10 km southwards, turned right and cycled 5 km and turned right and cycled 10 km and turned left and cycled 10 km. How many kilometers will he have to cycle to reach his home straight ?
- (a) 10 km (b) 15 km  
(c) 25 km (d) 20 km
5. Choose the odd word :
- (a) Ginger (b) Onion  
(c) Corriander (d) Potato
6.  $1/2, 3/4, 5/8, 7/16, ?$
- (a)  $9/32$  (b)  $10/17$   
(c)  $11/34$  (d)  $12/35$
7. Botany : Plants :: Entomology : ?
- (a) Snakes (b) Insects  
(c) Birds (d) Germs
8. If in a certain code, SWITCH is written as TVJSDG, which word would be written as CQFZE ?
- (a) BARED (b) BRAED  
(c) BRDAE (d) BREAD
9. Pointing to a photograph, a person tells his friend, "She is the granddaughter of the elder brother of my father" ?
- (a) Aunt (b) Sister-in-law  
(c) Niece (d) Sister
10. If a 'wall' is called 'window', 'window' is called 'door', 'door' is called 'floor', 'floor' is called 'roof' and 'roof' is called 'ventilator', what will be a person stand on :
- (a) Roof (b) Wall  
(c) Floor (d) Window

11. Q's mother is sister of P and daughter of M. S is daughter of P and sister of T. How is M related to T ?
- (a) Grandfather or Grandmother (b) Father  
(c) Grandmother (d) Grandfather
12. A, P, R, X, S and Z are sitting in a row. S and Z are in the centre, and A and P are at the ends. R is sitting on the left of A. Then who is sitting on the right of P ?
- (a) A (b) S  
(c) Z (d) X
13. P, Q, R, S and T are sitting around a circular table. R is to the right of P and is second to the left of S. T is not between P and S. Who is second to the left of R ?
- (a) Q (b) S  
(c) T (d) None of these
14. Rohan walks a distance of 3 km towards North, then turns to his left and walks for 2 km. He again turns left and walks for 3 km. At this point he turns to his left and walks for 3 km. How many kilometers is he from the starting point ?
- (a) 1 km (b) 2 km  
(c) 3 km (d) 5 km
15. If A is to the South of B and C is to the East of B, in what direction is A with respect to C ?
- (a) North-East (b) North-West  
(c) South-East (d) South-West

P.T.O.

**Directions (Q. Nos. 16 to 18) :**

Each question consists of two statements I and II. Decide whether data provided in the statements are sufficient :

- (a) Only data in statement I is sufficient.
- (b) Only data in statement II is sufficient.
- (c) Data in statement I or statement II is sufficient.
- (d) Data given in both statements I and II are not sufficient.

16. How is D related to A ?

- (I) B is the brother of A.
- (II) B is D's son.

17. Who among P, Q, R, S and T is the lightest ?

- (I) R is heavier than Q and T but lighter than S.
- (II) S is not the heaviest.

18. Village K is towards which direction of the village N ?

- (I) Village M is to the north of village N and to the east of village K.
- (II) Village D is to the west of village N and to the south of village K.

19. One morning after sunrise, Gopal was standing facing a pole. The shadow of the pole fall exactly to his right. Which direction was he facing ?

- (a) South
- (b) East
- (c) West
- (d) None of these

20. It is 3 o'clock in a watch. If the minute hand points towards the North-East, then the hour hand will point towards the :

- (a) South
- (b) South-East
- (c) North-East
- (d) South-West

21. Shobha is the niece of Ashish, Ashish's mother is Priya, Kamla is Priya's mother, Kamla's husband is Hari, Krishna is the mother-in-law of Hari. How is Shobha related to Hari ?

- (a) Daughter
- (b) Great Granddaughter
- (c) Grandniece
- (d) Great Grand'sdaughter

22. If 'A\$B' means 'A is the father of B', 'A\*B' means 'A is the mother of B', 'A⊕B' means 'A is the wife of B', then which of the following means 'M is the grandmother of N' ?
- (a) A\*T\$N⊕B (b) A\*T\$N\*R  
(c) M\*R⊕B⊕N (d) None of these
23. In certain code '786' means 'study very hard', '958' means 'hard work pays' and '645' means 'study and work'. Which is the following code for 'very' ?
- (a) 8 (b) 6  
(c) 7 (d) None of these
24. In a certain code DEAF is written as 3587 and FILE is written as 7465. How is IDEAL written in that code ?
- (a) 43568 (b) 43586  
(c) 65348 (d) 48536
25. Choose the group of letters which is different from others :
- (a) DXQCLZ (b) PFZUBM  
(c) XGKNTY (d) GJMQVX
26. Find the term which does not fit into the series given below :
- G4T, J10R, M20P, P43N, S90L
- (a) G4T (b) J10R  
(c) M20P (d) S90L
27. A child is looking for his father. He went 90 metres in the east before turning to his right. He went 20 metres before turning to his right again to look for his father at his uncle's place 30 metres from his point. His father was not there. From there, he went 100 meters to his north before meeting his father in a street. How far did the son meet his father from the starting point ?
- (a) 80 metres (b) 260 metres  
(c) 140 metres (d) 100 metres

P.T.O.

28. Read the following information to answer the following questions :

- (i) A, B, C, D, E, F and G are playing cards sitting around a circular table.
- (ii) D is not neighbour of C or E.
- (iii) A is neighbour of B and C.
- (iv) G, who is second to the left of D, is the neighbour of E and F.

What is the position of C ?

- (a) Second to the left of B
- (b) Third to the right of F
- (c) To the immediate right of E
- (d) None of the above

29. Read the following information carefully and answer the following question :

In a family, there are six members A, B, C, D, E and F. A and B are married couple. A is being the male member. D is the only son of C, who is the brother of A. E is the sister of D. B is the daughter-in-law of F, whose husband has died.

How many male members are there in a family ?

- (a) One
- (b) Two
- (c) Three
- (d) Four

30. Choose the set of numbers from four alternative sets, that is similar to the given set :

Given set : (223, 324, 425)

- (a) (225, 326, 437)
- (b) (451, 552, 636)
- (c) (554, 655, 756)
- (d) (623, 723, 823)