

**XCS-600****B. TECH. (SIXTH SEMESTER)  
MID SEMESTER EXAMINATION, 2019****CAREER SKILLS****Time : 1 : 30 Hours****Maximum Marks : 50****Instructions for candidates :**

- (1) This question paper has 50 questions. Attempt all questions. Each question carries equal marks.
- (2) It is compulsory to write the SET on the OMR.
- (3) Calculator is not allowed.

**Directions :** Identify the error in the given sentences and mark the part containing an error as your option. In case of no error, mark (d) as your answer :

1. Grandpa claims (a) that Martian measles (b)/ cause green and purple spot to erupt all over a person's body. (c) No error. (d)

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2. This candy is preferable than (a)/that and its taste is also (b) comparatively good. (c) No error (d)
3. Each man, woman and child (a)/ need to write General Foods (b)/a letter supporting the company's decision to produce a chocolate-broccoli breakfast cereal. (c) No error. (d)
4. My father and myself (a)/ are great followers of the tenets of socialism (b)/ and will vote accordingly (c)/ No error (d)
5. General Foods, the maker of Cheerios, (a)/have developed (b)/ a new cereal with chocolate puffs and broccoli-flavored marshmallows. (c) No error.(d)
6. Leaders who people look up to (a) are those who (b) follow their own inner voice rather than society's. (c) No error.(d)
7. My dog Floyd, together with Buster the cat (a)/, like to play with money; (b)/the cat swats crumpled bills onto the floor where the dog shreds them to pieces (c). No error(d)
8. Even though the jury (a)/want to believe that (b) / the defendant did not feed Elvis to the Loch Ness Monster, much of the evidence points to her guilt. (c) No error. (d)

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9. Concurrent with this programme, (a) / educational institutions may be urged to inculcate patriotism (b) / in each and every one of its pupils. (c) /No error. (d)
10. A new study has shown that children who have (a) high body mass index are more likelier to have high blood pressure, cholesterol and blood insulin levels (b) by the time they reach adolescence. (c) No error (d)

**Directions :** Select the word which is same in meaning to the word given in the question :

11. Hurtle
  - (a) popular
  - (b) erudite
  - (c) run
  - (d) nascent
12. Uncouth
  - (a) urchin
  - (b) regal
  - (c) uncultured
  - (d) credulous
13. Berate
  - (a) unmanageable
  - (b) rebuke
  - (c) vindicate
  - (d) vented

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14. Charlatan

- (a) bucolic
- (b) surrender
- (c) fraud
- (d) breeze

15. Gibberish

- (a) solution
- (b) concord
- (c) balderdash
- (d) dissent

16. Ubiquitous

- (a) pervasive
- (b) indifferent
- (c) prolific
- (d) mollify

17. Ingenuous

- (a) crafty
- (b) naive
- (c) extenuating
- (d) melee

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**Directions :** In the given sentences choose the option which represents the best way of writing the sentence :

18. (a) As Elliot climbed the temple steps, he could see the marketplace stretching out before him : merchants hawked goods, families browsed stalls and gossip was spread by teenagers.
- (b) As Elliot climbed the temple steps, he could see the marketplace stretching out before him : merchants hawked goods, families were browsing stalls and teenagers spread gossip.
- (c) As Elliot climbed the temple steps, he could see the marketplace stretching out before him : merchants hawked goods, families browsed stalls and teenagers spread gossip.
- (d) As Elliot climbed the temple steps, he could see the marketplace stretching out before him : merchants hawking goods, families browsed stalls and teenagers spreading gossip.

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19. (a) When chronological order is followed too mechanically, they are obscuring rather than clarifying important relationships.
- (b) When chronological order is followed too mechanically, it obscures rather than clarifying important relationships.
- (c) Chronological order, if too mechanically followed, obscures rather than it clarifies important relationships.
- (d) Chronological order, if followed too mechanically, obscures rather than clarifies important relationships.
20. (a) The audience were amazed and bewildered at the speed and dexterity with which he performed the act.
- (b) The audience was amazed and bewildered by the speed and dexterity with which he performed the act.
- (c) The audience was amazed and bewildered at the speed and dexterity with which he performed the act.
- (d) The audience were amazed and bewildered by the speed and dexterity with which he performed the act.

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21. (a) Prospecting Penny not only mined for gold, but silver she mined as well.
- (b) Prospecting Penny not only mined for gold, but she also mined for silver.
- (c) Prospecting Penny not only mined for gold, but silver.
- (d) Prospecting Penny mined not only for gold, but she mined for silver also.

**Directions :** Fill in the blanks with the appropriate option :

22. If Juliano had paid heed to my advice, he ..... suffered to this extent.
- (a) would not
- (b) did not
- (c) wouldn't have
- (d) will not have
23. If I ..... You, I wouldn't commit such a crime.
- (a) was
- (b) had been
- (c) were
- (d) am

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24. Provided that they..... there two days earlier, they will be able to vacate the building.

- (a) reach
- (b) will reach
- (c) reached
- (d) had reached

25. If the director wishes, we ..... again.

- (a) will work
- (b) would have worked
- (c) would work
- (d) had worked

26. The ratio of two numbers is 3 : 4 and their HCF is 15. Then the sum of the two numbers is :

- (a) 105
- (b) 115
- (c) 120
- (d) 110

27. The average of 11 numbers is 36, whereas average of 9 of them is 34. If the remaining two numbers are in the ratio 2 : 3, find the value of the smaller number (between remaining two numbers) :

- (a) 45
- (b) 48
- (c) 54
- (d) 36

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28. A and B entered into a partnership investing ₹ 16,000 and ₹ 12,000 respectively. After 3 months A withdrew ₹ 5,000 while B invested ₹ 5,000 more. After 3 months C joins the business with a capital of ₹ 21,000. The share of B exceeds that of C out of a total profit of ₹ 26,400 after one year by :

- (a) ₹ 2,400
- (b) ₹ 1,200
- (c) ₹ 3,600
- (d) ₹ 4,800

29. A policeman starts to chase a thief. When the thief moves 10 steps the policeman moves 8 steps. 5 steps of the policeman are equal to 7 steps of the thief. The ratio of the speeds of the policeman and the thief is :

- (a) 25 : 28
- (b) 25 : 26
- (c) 28 : 25
- (d) 56 : 25

30. A box contains 280 coins of 1 rupee, 50 paise coins and 25 paise coins. The values of each kind of coins are in the ratio 8 : 4 : 3. Then the number of 50 paise coins is :

- (a) 70
- (b) 60
- (c) 80
- (d) 90

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31. A can beat B by 40 metre in a 200 metre race. If A can complete a km race in 40 seconds, find the distance covered by B in 30s :
- (a) 600 m  
(b) 400 m  
(c) 300 m  
(d) 500 m
32. A mixture contains spirit and water in the ratio of 3 : 2. If it contains 3 litres more spirit than water, the quantity of spirit in the mixture is :
- (a) 12 litres  
(b) 10 litres  
(c) 9 litres  
(d) 8 litres
33. 60 kg of an alloy A is mixed with 100 kg of alloy B. If alloy A has lead and tin in the ratio 3 : 2 and alloy B has tin and copper in the ratio 1 : 4, the amount of tin in the new alloy is :
- (a) 53 kg  
(b) 44 kg  
(c) 80 kg  
(d) 24 kg

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34. A vessel is filled with liquid. 3 parts of which are water and 5 parts syrup. How much of the mixture must be drawn off and replaced with water so that the mixture may be half water and half syrup ?
- (a)  $\frac{1}{3}$   
(b)  $\frac{1}{4}$   
(c)  $\frac{1}{5}$   
(d)  $\frac{1}{7}$
35. A container contains 60 kg of milk. From this container 6 kg of milk was taken out and replaced by water. This process was repeated further two times. The amount of milk left in the container is :
- (a) 34.24 kg  
(b) 39.64 kg  
(c) 43.74 kg  
(d) 47.6 kg
36. A shopkeeper bought 80 kg of sugar at the rate of ₹ 13.50 per kg. He mixed it with 120 kg of sugar costing ₹ 16 per kg in order to make a profit of 20%, he must sell the mixture at :
- (a) ₹ 18 per kg  
(b) ₹ 17 per kg  
(c) ₹ 16.40 per kg  
(d) ₹ 15 per kg

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37. Three solutions having milk and water in the respective ratios 1 : 3, 2 : 5 and 4 : 1 are mixed in the ratio 1 : 2 : 3. Find the ratio of milk to water in the mixture :
- (a) 299 : 541  
(b) 541 : 299  
(c) 299 : 140  
(d) 140 : 299
38. A car driver leaves city A at 8 : 30 a.m. and expects to reach a place 300 km from city A at 12 : 30 p.m. At 10 : 30 he finds that he has covered only 40% of the distance. By how much he has to increase the speed of the car in order to keep up his schedule ?
- (a) 45 km/hr.  
(b) 40 km/hr.  
(c) 35 km/hr.  
(d) 30 km/hr.
39. A train, 200 metre long, is running at a speed of 54 km/hr. The time in seconds that will be taken by train to cross a 175 metre long bridge is :
- (a) 12.5  
(b) 20  
(c) 25  
(d) 10

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40. Two towns A and B are 500 km apart. A train starts at 8 a.m. from A towards B at a speed of 70 km/hr. At 10 a.m., another train starts from B towards A at a speed of 110 km/hr. When will the two trains meet ?
- (a) 1 p.m.  
(b) 12 noon  
(c) 12.30 p.m.  
(d) 1.30 p.m.
41. A and B start running at the same time and from the same point around a circle. If A can complete one round in 40 seconds and B in 50 seconds, how many seconds will they take to reach the starting point simultaneously ?
- (a) 10  
(b) 200  
(c) 90  
(d) 2000
42. A man in a boat is going upstream. The speed of the boat in still water is 6 km/hr. while the stream is flowing 1 km/hr. He starts under a bridge and travels for 5 h upstream when his cap falls into the water. After falling into the water, how much time will the cap take to reach the bridge ?
- (a) 30 h

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- (b) 25 h
  - (c) 20 h
  - (d) 10 h
43. In a fixed time, a boy swims double the distance along the current that he swims against the current. If the speed of the current is 3 km/hr., the speed of the boy in still water is :
- (a) 6 km/hr.
  - (b) 9 km/hr.
  - (c) 10 km/hr.
  - (d) 12 km/hr.
44. On a straight road of length 90 km, a thief escapes on a motorcycle at 30 km/hr. An hour later, a policeman starts the chase at 70 km/hr. At the same time, a patrol party starts from the other end at 60 km/hr., who will reach the thief first and after how much time ?
- (a) Patrol, 60 mins
  - (b) Police, 45 mins
  - (c) Police, 60 mins
  - (d) Patrol, 40 mins
45. A can do a piece of work in 12 days and B in 15 days. They work together for 5 days and then B left. The days taken by A to finish the remaining work is :
- (a) 3

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- (b) 5
  - (c) 10
  - (d) 121
46. 18 men or 36 boys working 6 hours a day can plough a field in 24 days. In how many days will 24 men and 24 boys working 9 hours a day plough the same field ?
- (a) 9
  - (b) 10
  - (c) 6
  - (d) 8
47. A can do a piece of work in 6 days. B is 25% more efficient than A. How long would B alone take to finish the work ?
- (a)  $24/5$  days
  - (b)  $10/3$  days
  - (c)  $21/4$  days
  - (d)  $8/3$  days
48. Two pipes can fill a cistern in 3 hours and 4 hours respectively and a waste pipe can empty it in 2 hours. If all three pipes are kept open, then the cistern will be filled in :
- (a) 5 hours
  - (b) 8 hours
  - (c) 10 hours
  - (d) 12 hours



49. A cruise had sufficient food for the entire journey of 20 days to be consumed by the 150 members on board. After 5 days, 30 more members came on board the cruise. For how many more days will the food last ?
- (a) 10
  - (b) 12.5
  - (c) 25
  - (d) 17.5
50. A can do a work in 15 days while B can nullify the work done by A in 20 days. They are working on alternate days with A working on the first day. When will the work get completed ?
- (a) 120th day
  - (b) 113th day
  - (c) 116th day
  - (d) 117th day