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B.Tech. DEGREE EXAMINATION, NOVEMBER 2019

15 PD 302 – EMPLOYABILITY SKILLS

(For the Candidates Admitted during the Academic Year 2015 - 2016, and 2016 - 2017)

Time : 2 Hours   Max. Marks : 100

Name of the Candidate : _____

Register Number :

Signature of the Candidate : _____

INSTRUCTIONS TO THE CANDIDATE

1. The Question Booklet contains 80 Questions.

2. **ANSWER ALL** the questions. **This paper contains TWO parts.**

3. **CALCULATORS OR ANY OTHER MATHEMATICAL DEVICES ARE NOT ALLOWED.**

4. Write your **NAME, REGISTER NUMBER** and put your **SIGNATURE** in the places specified on the first page of this Question Booklet.

5. Do not open this Question Booklet until the Hall Superintendent signals the commencement of the examination.

6. Check whether the Answer Sheet and the Question Booklet are in good condition. If not, before writing anything on the Answer Sheet, ask for the replacement of the Question Booklet/Answer Sheet.

7. Write and shade your **REGISTER NUMBER,** in the specified place in the **OMR** coding sheet.

8. Write and shade the question paper version code in the specific place in the **OMR** coding sheet.

9. Answer should be shaded with **BLUE** or **BLACK BALL PEN** in the coding sheet.

10. All instructions given in the **OMR** coding sheet should be strictly followed.

11. Use Answer Sheet carefully. No spare Answer Sheet will be given.

12. The answer should be given only in the Answer Sheet.

13. The last few pages of the Question Booklet are blank, except for the words 'Rough Work'. You can use them for any rough calculations.

ROUGH WORK

Instructions:

(i)   Question No. 1 to 10 carries 2 marks each.

(ii) Question No. 11 to 40 carries 1 mark each.

1.   Find the unit digit of $184^{132} \times 155^{132}$.

(A) 0   (B) 1   (C) 2   (D) 3

2.   The average of six consecutive even number is 105. Find the 50% of the greatest of these numbers.

(A) 60   (B) 65   (C) 50   (D) 55

3.   A student scores 55% mark in 8 papers of 100 mark each. He scores 15% of his total mark in English. How much does he scores in English?

(A) 55   (B) 66   (C) 77   (D) 44

4.   The difference between the two numbers is 91 and the ratio between them is 23:10. Find the two numbers.

(A) 161, 77   (B) 160, 77   (C) 161, 70   (D) 160, 70

5.   A is two years older than B who is twice as old as C. The sum of ages of A, B and C is 27. How old is B?

(A) 5 years   (B) 10 years   (C) 15 years   (D) 4 years

6.   In how many ways, you can arrange the word 'COLLEGE' ?

(A) 1600   (B) 1580   (C) 1490   (D) 1260

7.   40 men can complete one work in 20 days. In how many days, 50 men can complete it?

(A) 16 days   (B) 17 days   (C) 18 days   (D) 20 days

8.   A train 60 m long passes a platform 90 m long in 10 seconds. What is the speed of the train ?

(A) 20 m/s   (B) 15 m/s   (C) 25 m/s   (D) 30 m/s

9. An angle whose measure is more than 90° but less than 180° is

    (A) Obtuse angle   (B) Right angle   (C) Acute ang   (D) Reflex angle

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

    (A) Father   (B) Son   (C) Mother   (D) Uncle

11. The LCM of two numbes is 4800 and their HCF is 160. If one of the number is 480, then the second number is.

    (A) 16   (B) 16000   (C) 160   (D) 1600

12. A number is increased by 10% and then reduced by 10%. After this operation, the number,

    (A) Does not change   (B) decreases by 1%

    (C) increases by 1%   (D) increases by 2%

13. The age of the two person differ by 20 years. If 5 years ago, older one be 5 times as old as the younger one, Find their present ages?

    (A) 25, 5   (B) 35, 15   (C) 30, 10   (D) 50, 10

14. If the cost price of 12 pencils is equal to selling price of 10 pencils, then profit percent in the transaction is

    (A) 30%   (B) 20%   (C) 10%   (D) 40%

15. The number of ways in which students can choose 5 courses out of 9 courses, when 2 courses are compulsory is

    (A) 32   (B) 33   (C) 35   (D) 34

16. What was the day on 10th November 1997?

    (A) Monday   (B) Tuesday   (C) Sunday   (D) Friday

17. Find the value of $\log_6 \left(\frac{1296}{216} \right)$.

    (A) 1   (B) 2   (C) 3   (D) 4

18. If a man rides his motor bike at 45 kmph and then at 65 kmph for 3 hours each, what is his average speed?

   (A) 60 kmph   (B) 70 kmph   (C) 50 kmph   (D) 55 kmph

19. What is the probability that a number selected at random from the first 25 natural number is prime?

   (A) $\left(\frac{6}{25}\right)$ (B) $\left(\frac{16}{25}\right)$ (C) $\left(\frac{19}{25}\right)$ (D) $\left(\frac{9}{25}\right)$

20. Find the average of odd numbers from 1 to 40?

   (A) 30   (B) 15   (C) 20   (D) 22

21. Calculate the simple interest on ₹ 9000 at 6% per annum for 3 years.

   (A) ₹ 1600   (B) ₹ 1650   (C) ₹ 1620   (D) ₹ 1500

22. A can do a piece of work in 12 days and **B** in 15 days. In how many days, can they complete the work if they work together?

   (A) $6\frac{2}{3}$ days   (B) 6 days   (C) $6\frac{4}{3}$ days   (D) $6\frac{3}{4}$ days

23. The percentage increase in the area of a rectangle, if each of its side is increased by 20% is :

   (A) 40%   (B) 44%   (C) 42%   (D) 50%

24. Find the roots of the quadratic equations : $x^2 + 2x - 15 = 0$?

   (A) –5, –3   (B) 3, 5   (C) 5, 2   (D) –5, 3

25. In a class of 60 students, 40 students like maths, 36 like science, 24 like both the subjects. Find the number of students who like maths only.

   (A) 16   (B) 17   (C) 18   (D) 19

26. Find the next number in the given series.

   4, 9, 16, 25, 36, _____

   (A) 64   (B) 49   (C) 81   (D) 40

27. A man walks 3 km from his home towards East. He then turns left and walk 4 km. In which direction is he now from the starting point?

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

28. If 'HUSBAND' is coded as 'JWUDCPF' what is the code for 'PARTNER' ?

(A) RCVVPGT   (B) RCTVPHT   (C) RCTVPGT   (D) RBTVPGT

Directions for Q. 29 to Q. 30.

Five members P, Q, R, S and T are seated in a circular fashion facing centre. P is the second left of Q. T is the immediate right of Q. S is not the neighbour of T.

29. Who is at the immediate left of S ?

(A) Q   (B) T   (C) P   (D) R

30. Who is to the second right of R ?

(A) Q   (B) S   (C) R   (D) T

Direction for Q. 31 to Q. 35

Each question is followed by two statements I and II. Indicate your responses based on the following directives :

(A) If the question can be answered using one of the statement alone, but cannot be answered using the other statement.

(B) if the questions can be answered using either statement alone.

(C) If the questions can be answered using I and II together but not using I (or) II alone.

(D) if the question cannot be answered even using I and II together.

31. How is **D** related to **T**?

Statement :

I. **S**, who is the brother of **P**, is married to **R**, who is the sister of **T**.

II. **T** is the son of **R** and **D** is the daughter of **S**.

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

32. What percentage of students failed in a class?

I. only 25 students passed

II. 5 students failed in one subject.

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

33. Is x an even number?

I. $2x$ is even.

II. $3x$ is even.

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

34. What percentage of matches are won by Q?

I. **Q** played 11 and drawn in 2.

II. **Q** Played 11 and lost 4.

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

35. Who is the tallest among **M, P, Q** and **R** ?

I. **P** is taller than **Q** but not as tall as **R** and **R** is taller than **M**.

II. **M** is taller than **P** but not as tall as **R**.

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

Direction for Q. 36 to Q. 40.

The table shows the number of employers working in various department of ABC.

Year	Production	Marketing	Corporate	Accounts	Research
1999	170	30	45	60	80
2000	220	35	50	52	75
2001	420	65	35	95	76
2002	480	66	38	110	80
2003	550	90	40	140	78
2004	525	70	51	142	76

36. In which year, was the total number of employers twice that of the year 2000?

    (A) 2002   (B) 2004   (C) 1999   (D) 2001

37. In which department, does the number of employees remain the same for the year 2001 and 2004?

    (A) Accounts   (B) Marketing   (C) Research   (D) Production

38. Average of number of employees in Accounts department from 1999 to 2004 is :

    (A) 300   (B) 200   (C) 95   (D) 100

39. In which year, was the number of employees among all the departments more than that in the immediate preceding year ?

    (A) 2002   (B) 2004   (C) 1999   (D) 2001

40. In how many years, was the number of employees working in the production department is less than 50% of the total number of employees in that year?

    (A) 3   (B) 1   (C) 2   (D) 5

PART – B   (50 Marks)

Instructions:

(i)   Question No. 41 to 50 carries two marks each.

(ii)   Question No. 51 to 80 carries one mark each.

In each of the questions below, four different ways of writing a sentence / the underlined part are indicated. Choose the best way of writing the sentence.

41.   The man to who I sold my house was a cheat.

(A) to who I sold   (B) to whom I sell

(C) who was sold to   (D) to whom I sold

42.   I need not offer any explanation regarding this incident - My behaviour is speaking itself.

(A) is speaking itself   (B) speaks for itself

(C) speaks about itself   (D) will speak to itself

43.   If you are thinking about investigation overseas, isn't it makes sense to find an experience guide?

(A) isn't it makes   (B) doesn't it make

(C) it is not making   (D) does it make

Choose the pair that has the similar relationship with that of the question pair:

44.   Pain : Sedative

(A) Comfort : Stimulant   (B) Grief : Consolation

(C) Trance : Narcotic   (D) Ache : Extraction

45.   Light : Blind

(A) Speech : Dumb   (B) Language : Deaf

(C) Tongue : Sound   (D) Voice : Vibration

Rearrange the following sentences to form coherent paragraph' sentences 1 and 6 are in correct position.

46. 1.   A force of exists between everybody in the universe.
     P.   Normally it is very small but when the one of the bodies is a planet, like earth, the force is considerable.
     Q.   It has been investigated by many scientist including Galileo and Newton.
     R.   Everything on or near the surface of the earth is attracted by the mass of earth.
     S.   This gravitational force depends on the mass of the bodies involved.
     6.   The greater the mass, the greater is the earth's force of attraction on it. We can call this force of attraction gravity.
     (A) 1PQRS6   (B) PQRS16   (C) PQ16RS   (D) P1QRS6

47. 1.   Ants eat worms, centipedes and spiders.
     P.   They are usually much quicker than the ant itself.
     Q.   Nevertheless, these animals do not make easy game for ants.
     R.   Besides, they have an extraordinary number of ways of escaping.
     S.   They also eat larvae and insect adults such as flies, moths and spring tails.
     6.   Some jump, and some give out a pungent repellent substance.
     (A) PQRS16   (B) 16PQRS   (C) 1PQRS6   (D) PQ16RS

Read the argument and answer the question that follows:

48. Many business offices are located in building having 2-8 floors. If a building has more than 3 floors, it has a lift.
     It the above statements are true, which of the following must be true?
     (A) 2nd floors do not have lifts.
     (B) 7th floors have lifts.
     (C) Only floors above the 3rd floors have lifts.
     (D) All floors may reached by lifts.

49. "Some men are definitely intelligent, others are definitely not intelligent, but of intermediate men, we should say, 'intelligent'? Yes I think, So or no, I shouldn't be inclined to call him intelligent."

Which of the following reflects the intention of the writer well?

(A) To call men intelligent who are not strikingly so must be to use the concept with undue imprecision

(B) Every empirical concept has a degree of vagueness.

(C) Calling someone intelligent or not depends upon one's whim.

(D) There is no need to be as indecisive as the writer of the above.

50. Off shore oil-drilling operations involve an unavoidable risk of an oil spill, but importing oil on tankers presently involves an ever greater such risk per barrel of oil. So, if we are to lessen the risk of an oil spill without reducing our oil usage, we must invest more in off shore operations and import less oil on tankers.

Which of the following, if true, seriously weakens the argument above?

(A) Importing oil on tankers is currently less expensive than drilling for it offshore.

(B) Tankers can easily be redesigned so that their use entails less risk of an oil spill.

(C) The impact of offshore operations on the environment can be reduced by careful management.

(D) Oil spills caused by tankers have generally been more serious than those caused by offshore operations.

Read the passage and answer the questions that follow:

Speech is great blessing but it can be great curse, for while it helps us to make our intention and desires known to our fellows, it can also if we use it carelessly, make our attitude completely misunderstood. A slip of the tongue, the use of unusual word, or of an ambiguous word, and so on, may create an enemy where we had hoped to win a friend. Again, different classes of people use different vocabularies, and the ordinary speech of an educated may strike an uneducated listener as pompous. Unwittingly, we may use a word which bears a different meaning to our listener from what it does to men of our own class. Thus speech is not a gift to use lightly without thought, but one which demands careful handling. Only a fool will express himself alike to all kinds and conditions to men.

51. The best way man can solve pollution is to _____

    (A) irony is speech
    (B) promposity in speech
    (C) Verbosity in speech
    (D) ambiguity in speech

52. While talking to an uneducated person, we should use _____

    (A) ordinary speech
    (B) his vocabulary
    (C) simple words
    (D) polite language

53. If one used the same style of language with everyone, one would sound _____

    (A) flat
    (B) boring
    (C) foolish
    (D) democratic

54. A 'Slip of the tongue' means something said _____

    (A) wrongly by choice
    (B) unintentionally
    (C) without giving proper thought
    (D) to hurt another person

55. Speech can be curse, because it can _____

    (A) hurt others
    (B) lead to carelessness
    (C) create misunderstanding
    (D) reveal our intentions

Choose the antonym of the underlined word :

56. While the reaction to major disasters is dismal, the response to emergencies like accidents is equally sad.

    (A) Depressing
    (B) Upset
    (C) Competent
    (D) Smiling

57. Related to the current elevated energy prices, there has been a diversion of corn and edible to bio-fuels, which is significantly influenced by policy mandates.

    (A) Raised
    (B) Stabilized
    (C) Fallen
    (D) Slanted

58. The speaker was unable of pacify the crows.

    (A) excite
    (B) antogonize
    (C) threaten
    (D) challenge

59. He has an <u>aversion</u> to milk.

    (A) dear   (B) loving   (C) liking   (D) pet

60. <u>Spurious</u> drugs can prove to be fatal.

    (A) Virtuous   (B) inferior   · (C) genuine   (D) contemptuous

61. His attitude to poor people is <u>deplorable</u>.

    (A) commendable   (B) miserable   (C) equitable   (D) desirable

62. The old man <u>manifested</u> his greed at the sight of a huge amount of money.

    (A) displayed   (B) concealed   (C) suppressed   (D) marked

Choose the option that best completes the sentences semantically / grammatically :

63. Everything _____ she said is true.

    (A) that   (B) what   (C) which   (D) there

64. _____ us has been invited.

    (A) None   (B) none of   (C) no one   (D) nobody

65. This is fourth cake you _____ this morning.

    (A) have eaten   (B) Ate   (C) are eating   (D) were eat

66. If I had gone to university, I _____ business administration.

    (A) will study   (B) would study

    (C) would have studied   (D) was studied

67. _____ what you think.

    (A) It doesn't matter   (B) No matter

    (C) Not matter   (D) Never matter

68. The small child does whatever his father _____.

    (A) has done   (B) did   (C) does   (D) had done

Choose the synonym of the underlined word:

69. Public policy in regard to food in main economies around the world has not provided adequate <u>incentive</u>, the response to emergencies like accidents is equally sad.

    (A) acceleration   (B) surplus   (C) baiting   (D) encouragement

70. The National disaster management agency, set up a short time ago being a central government agency, has limitations relating to <u>infringing</u> the jurisdiction of the states.

    (A) breaking   (B) violating   (C) provoking   (D) hampering

71. Camerata revived the style of musical history that had been used in Greek tragedy tabing most of the <u>plots</u> for their operas from Greek and Roman history and mythology, writing librettos or dramas for music.

    (A) Location   (B) instrument   (C) stories   (D) inspiration

72. Grouping stars by their constellations is a <u>handy</u> way of mapping the sky.

    (A) funny   (B) nice   (C) convenient   (D) simple

73. When the leadership changed, his position in the organizational became <u>precarious</u>.

    (A) uncertain   (B) secure   (C) exalted   (D) important

74. The committee decided to <u>expel</u> the new member.

    (A) detain   (B) remove   (C) preserve   (D) reserve

75. It was a <u>momentous</u> moment in the history of the nation.

    (A) insignificant   (B) important   (C) sudden   (D) transient

Identify the part of the sentence that contains an error:

76. This laboratory of physics is **(A)** / not only equipped with **(B)** / all that of the art instruments **(C)** / but also with outstanding physicists **(D)**.

77. India today **(A)** / stands at crucial **(B)** / crossroads with its history as **(C)** / an independent nation **(D)**.

78. By April next year **(A)** / I will have been **(B)** / working in this office **(C)** / for twenty years **(D)**.

79. Rohan is not only involved **(A)** / organizing conferences and seminars **(B)** / but also in conducting **(C)** / adult literacy programmes **(D)**.

80. Due to certain inevitable circumstances **(A)** / the scheduled programme had to be **(B)** / postponed indefinite **(C)** / but the members could not be informed **(D)**.