

Question Booklet and Answer Key
Tractor Mechanic Instructor

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English Version

1. ਐਠ ਲਿਖਿਆਂ ਵਿੱਚੋਂ ਸਹੀ ਸਮਾਸੀ ਸ਼ਬਦ ਚੁਣੋ:
(A) ਡਾਕ-ਚਿੱਠੀ (B) ਡਾਕ-ਪੋਸਟ (C) ਡਾਕ-ਖਾਨਾ (D) ਡਾਕ-ਬੰਡਾਈ
2. 'ਕੁੜੱਤਣ' ਸ਼ਬਦ ਦਾ ਵਿਰੋਧੀ ਸ਼ਬਦ ਚੁਣੋ:
(A) ਨਮਕੀਨ (B) ਮਿਠਾਸ (C) ਫਿੱਕਾ (D) ਕੌੜਾ
3. ਨਿਸ਼ਚੇ-ਵਾਚਕ ਪੜਨਾਵ ਚੁਣੋ:
(A) ਤੁਸੀਂ (B) ਅਸੀਂ (C) ਉਹ (D) ਮੈਂ
4. ਪਤੀ ਦੀ ਦੂਸਰੀ ਪਤਨੀ:
(A) ਦੂਜੀ ਤੀਵੀਂ (B) ਦੂਜੀ ਘਰ ਵਾਲੀ (C) ਭਰਜਾਈ (D) ਸੌਂਕਣ
5. ਸ਼ੁੱਧ ਮੁਹਾਵਰਾ ਚੁਣੋ:
(A) ਸਾਹ ਸੁੱਕਣਾ (B) ਸਾਹ ਰੁਕਣਾ (C) ਸਾਹ ਲੈਣਾ (D) ਸਾਹ ਦੇਣਾ

Directions (Q. No. 6-8):- Out of the four given options, choose the correct preposition to be filled in the blanks: -

6. Your lecture is irrelevant ___ the theme of the seminar.
(A) of (B) to (C) with (D) in
7. Hari's essay is replete ___ demographic statistics.
(A) of (B) with (C) at (D) from
8. He has no aptitude ___ Physics.
(A) in (B) for (C) with (D) at

Directions (Q.No 9-10) :- Out of the four given options, choose the correct antonym of the given word:-

9. Babel
(A) Conversation (B) Silence (C) Betrayal (D) Beast
10. Cognate
(A) Related (B) Unrelated (C) Hatred (D) Jealousy
11. Who was the Guru of Bala Mardana?
A)Guru Ram Das B)Guru Angad Dev C)Guru Nanak Dev D)Guru Gobind Singh
12. Central University of Punjab (CUP) is located at
A) Talwandi Saboo B) Amritsar C) Bathinda D) Fatehgarh Sahib
13. Who is present Guru of Sikhs?
A) Guru Nanak Sahib Ji B) Guru Gobind Singh Ji
C) Guru Granth Sahib Ji D) Baba Ji 'Pind Wale'

14. Which revolutionary is supposed to be the master mind in the attack on Harding?
A) Kartar Singh Sarabha B) Lal Hardayal
C) Sohan Singh Bhakna D) V.D. Savarkar
15. What percent of the best quality cotton Punjab produces in India?
A) 60% B) 70% C) 40% D) 50%
16. Which vitamin is provided by sunlight to the body?
A) Vitamin A B) Vitamin B C) Vitamin C D) Vitamin D
17. The term Green Revolution has been used to indicate higher production through:
A) creation of grasslands B) planting more trees
C) creation of gardens in urban areas D) enhanced agricultural productivity per hectare
18. The members of the Rajya Sabha are:
A) elected indirectly
B) mostly nominated
C) elected directly as well as indirectly
D) elected by the members of the Legislative Assemblies and Legislative Councils of States
19. All India Muslim League was formed in
A) Dhaka B) Lahore C) Aligarh D) Lucknow
20. Which of the following has a 51:49 joint venture with Japanese automobile company Nissan for manufacturing light commercial vehicles in India?
A) Tata Motors B) Ashok Leyland C) Mahindra and Mahindra D) Bajaj Auto
21. Choose the odd one out.
A) Feeling B) Joy C) Anxiety D) Anger
22. In a certain coding system, 'rbm std bro pus' means 'the cat is beautiful', 'tnh pus dim std' means 'the dog is brown', 'pus dim bro pus cus' means 'the dog has the cat'. What is the code for 'has'?
A) std B) dim C) bro D) cus
23. 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) Grandmother B) Father C) Grandfather D) Grandfather or Grandmother
24. Deepak said to Nitin, "That boy playing football is the younger of the two brothers of the daughter of my father's wife." How is the boy playing football related to Deepak?
A) Son B) Brother C) Cousin D) Nephew
25. Daksh is taller than Manick but not as tall as Rohan. Somesh is shorter than Daksh but taller than Farhan. Who among them is the shortest?
A) Daksh B) Manick C) Farhan D) Cannot be determined
26. Five boys took part in a race. Raj finished before Mohit but behind Gaurav. Ashish finished before Sanchit but behind Mohit. Who won the race?
A) Raj B) Gaurav C) Mohit D) Ashish
27. You go North, turn right, then right again and then go to the left. In which direction are you now?
A) North B) South C) East D) West

28. Read the trend of characters in the following matrix and find out the missing character.

7	4	5
8	7	6
3	3	?
29	19	31

- A) 3 B) 4 C) 5 D) 6
29. How many 4's are there preceded by 7 but not followed by 3?
5 9 3 2 1 7 4 2 6 9 7 4 6 1 3 2 8 7 4 1 3 8 3 2 5 6 7 4 3 9 5 8 2 0 1 8 7 4 6 3
A) Three B) Four C) Five D) Six
30. Replace the question mark(?) in the given series.
2, 3, 8, 27, 112, ?
A) 226 B) 339 C) 452 D) 565
31. $\frac{7+7+\frac{7}{7}}{(7+7+7)/7} = ?$
A) $\frac{15}{21}$ B) 5 C) $14\frac{2}{3}$ D) $15\frac{1}{3}$
32. The average temperature of Monday, Tuesday, Wednesday and Thursday was 38°C and that of Tuesday, Wednesday, Thursday and Friday was 40°C. If the temperature on Monday was 30°C, what was the temperature on Friday?
A) 40°C B) 39°C C) 38°C D) 30°C
33. Three years ago, the average age of A and B was 18 years. With C joining them now, the average becomes 22 years. How old is C now?
A) 24 years B) 27 years C) 28 years D) 30 years
34. The selling price of an article is $\frac{4}{3}$ times its cost price. The gain percent is:
A) $20\frac{1}{3}\%$ B) $20\frac{1}{2}\%$ C) $25\frac{1}{4}\%$ D) $33\frac{1}{3}\%$
35. A can do a work in 4 days, B can do it in 5 days and C can do it in 10 days. A, B and C together can do the work in
A) $1\frac{3}{5}$ days B) $1\frac{9}{11}$ days C) $2\frac{5}{6}$ days D) 3 days
36. Walking with $\frac{3}{4}$ of his usual speed a man covers a certain distance in 2 hours more than the time he takes to cover the distance at his usual speed. The time taken by him to cover the distance with usual speed is
A) $4\frac{1}{2}$ hours B) $5\frac{1}{2}$ hours C) 5 hours D) 6 hours
37. A sum of ₹ 600 amounts to ₹ 720 in 4 years. What will it amount to if the rate of interest is increased by 2%?
A) ₹ 724 B) ₹ 648 C) ₹ 768 D) ₹ 792
38. If the diagonal of a rectangle is 17 cm long and its perimeter is 46 cm, the area of the rectangle is:
A) 100 cm² B) 110 cm² C) 120 cm² D) 150 cm²

39. At what time between 5.30 and 6 will the hands of a clock be at right angles?
A) $43\frac{5}{11}$ min. past 5 B) $43\frac{7}{11}$ min. past 5 C) 40 min. past 5 D) 45 min. past 5
40. What is the greatest number of 3 digits which when divided by 6, 9, 12 leaves a remainder 3 in each case?
A) 903 B) 939 C) 975 D) 996
41. In order to develop rapport with your pupils, you should
A) guide them B) treat them in a democratic way
C) have communicative ability D) all of the above
42. The teacher's job is to teach the subject efficiently and also find out
A) if students are listening him silently
B) if students are sitting properly
C) if students are well dressed
D) if students are understanding what he is teaching
43. The most important teaching aid for a teacher is
A) black-board B) maps and charts C) colour pictures D) graphs and tables
44. An effective teaching means all of the following except
A) a teacher teaches with enthusiasm
B) a teacher finds fault in his students
C) a teacher prefers to make subject matter understood
D) emphasizes on subject, moral and cultural values
45. The most appropriate meaning of learning is
A) personal adjustment B) modification of behavior
C) inculcation of knowledge D) acquisition of skills
46. Who is the best motivator of a student in the school?
A) the teacher B) the headmaster C) the management D) peer group
47. Which of the following is not appropriate tool for Formative Assessment?
A) term test B) quiz and games C) assignments D) oral questions
48. The term curriculum is used in education to indicate
A) the courses prescribed for an examination
B) the contents of a broad subject selected for a particular class
C) the sum total of all experiences provided for students by an educational institution
D) the field covered by a particular course of study
49. Arrange the following steps of teaching process in order
1) relating present knowledge with previous knowledge
2) re-teaching
3) formulation of objective
4) presentation of material
A) 1, 3, 2, 4 B) 2, 3, 4, 1 C) 3, 4, 1, 2 D) 3, 1, 4, 2
50. Observation method in teaching should be
A) scientific B) philosophical C) normative D) none of these
51. A BIT represents a
(a) decimal digit (b) binary digit (c) hexadecimal digit (d) octal digit

52. A term used for comparison of processing speeds of different computers is
(a) RPM (b) GHz (c) MIPS (d) CPS
53. A kilobyte also referred to as *K*, is equal to
(a) 1000 bytes (b) 1024 bytes (c) 1000 bits (d) 1024 bits
54. Internet is accessed by
(a) leased line (b) dialup connection (c) ISDN (d) all of the above
55. The Rectangle shape symbol in the flowchart signifies
(a) processing (b) decision (c) connectors (d) none of the above
56. Four jaw chucks are specified by
(a) width (b) length (c) diameter (d) none of the above
57. The lathe bed is made up of
(a) mild steel (b) alloy steel (c) pig iron (d) cast iron
58. In which of the following operation on lathe, the spindle speed will be minimum
(a) taper turning (b) thread cutting (c) knurling (d) parting off
59. Minimum voltage of direct current for establishing an arc is
(a) 400 volts (b) 14 volts (c) 40 volts (d) 4 volts
60. Central white cone is found in
(a) Natural flame (b) Oxidizing flame (c) Carburizing flame (d) None of these
61. Filler rod is given circular or side to side motion in
(a) left hand welding (b) vertical welding
(c) right hand welding (d) horizontal welding
62. Mallet is used in
(a) welding shop (b) sheet metal shop (c) carpentry shop (d) all of the above
63. Snip is a
(a) cutting tool (b) marking tool (c) measuring tool (d) none of the above
64. Thickness of sheet is measured with
(a) standard wire gauge (b) feeler gauge (c) screw gauge (d) depth gauge
65. Internal diameter is measured by
(a) outside micrometer (b) inside micrometer
(c) depth gauge micrometer (d) screw thread micrometer
66. A mortise gauge is a
(a) striking tool (b) planing tool (c) boring tool (d) marking tool
67. Surface roughness on a drawing is represented by
(a) circles (b) triangles (c) squares (d) rectangles
68. Function of starting motor is
(a) to start the vehicle (b) to start the engine (c) to start the gear box (d) none of these
69. A fully charged battery has specific gravity of electrolyte
(a) 1.280 (b) 1.820 (c) 1.028 (d) 1.208

70. One reason why an alternator produces a higher output than a dynamo is because the alternator
 (a) has an accumulator (b) generates direct current
 (c) is driven faster (d) always uses a 'negative earth'
71. Engine starter motor is
 (a) single phase AC motor (b) DC series motor
 (c) DC shunt motor (d) DC compound motor
72. The dynamo is driven by the
 (a) engine fan belt (b) bevel gear (c) spur gear (d) none of these
73. The light of the directional signal flashes about
 (a) 40 times/minute (b) 200 times/minute
 (c) 45 times/minute (d) 80 times/minute
74. The symbol of two way switch is
 (a)  (b)  (c)  (d) 
75. Armature is laminated due to
 (a) increase eddy current loss (b) decrease eddy current loss
 (c) increase e.m.f (d) decrease e.m.f
76. The main source of electric energy in an automobile is
 (a) spark plug (b) H.T. coil (c) dynamo (d) battery
77. Firing order of 4 cylinder engine is
 (a) 1-3-4-2 (b) 1-2-4-3 (c) 1-2-3-4 (d) both a & b
78. Knowing the IHP and FHP of an engine, we can calculate
 (a) Compression ratio (b) rpm (c) SAF (d) BHP
79. In the diesel engine, the compression ratio is as high as
 (a) 10:1 (b) 15:1 (c) 5:1 (d) 25:1
80. The brake shoes are curved to conform to the inner diameter of the
 (a) Tyre (b) Wheel (c) Pedal (d) Brake drum
81. The substance added to the oil which helps to keep the engine clean is called
 (a) Grease (b) Thickening agent (c) Soap (d) Detergent
82. One advantage of using an exhaust valve as insert is that the ring
 (a) Withstands high exhaust gas temperature better (b) Wears in more quickly
 (c) Is more easily machined (d) none of the above
83. The crankshafts are usually forged to get
 (a) Minimum friction effects (b) A good mechanical design
 (c) Good grain structure (d) Improved corrosion structure
84. The frame provides support for the engine body, power train members and
 (a) Wheels (b) Jack (c) Road (d) none of the above

85. The rear end suspension arrangement in which rear end torque is absorbed by the spring is called the
(a) Torque tube drive (b) Hooks drive (c) Differential drive (d) Hotchkiss drive
86. The clips placed at intervals along some leaf spring to prevent spring leaf separation on rebound, are called
(a) Rebound clips (b) Separation clips (c) Interval clips (d) Relief clips
87. The laminated spring, which is in common use, is of the type
(a) Full elliptic (b) Semi elliptic (c) One quarter elliptic (d) Three quarter elliptic
88. The power train includes the clutch, propeller shaft, differential and
(a) Steering gear (b) Front axles (c) Chassis (d) Transmission
89. Clutch slippage while clutch is engaged is particularly noticeable
(a) When starting the engine (b) During acceleration
(c) During idle (d) At low speed
90. Synchronizing devices are designed to prevent gear clash when shifting into
(a) First and reverse (b) First and second
(c) Second and high (d) none of the above
91. The second movement of the gear shift lever produces
(a) The correct gears to mesh (b) The movement of the drive gear
(c) Release of clutch (d) none of the above
92. The three forward speed and the reverse transmission consists of three shafts and
(a) Three gears (b) Five gears (c) Eight gears (d) Ten gears
93. The two basic types of axle are
(a) Dead and floating (b) Dead and live
(c) Floating and semi floating (d) none of the above
94. Which of the following layouts is not used in motor vehicles
(a) Front engine front drive (b) Front engine rear drive
(c) Rear engine front drive (d) Rear engine rear drive
95. The advantages of combine harvester are
(a) low initial cost (b) less loss of grains & straw in the field
(c) fast & economical (d) all of above
96. Plough is
(a) a farm equipment (b) an engine part (c) tractor part (d) none of above
97. The farm machinery can be classified on the basis of
(a) crop pattern (b) seasons (c) operations (d) all of above
98. The hard steering may be due to
(a) under inflated tyres (b) toe is not correctly set (c) worn out tyres (d) all of above
99. Bulling operation is performed by
(a) Huller (b) cultivator (c) plough (d) scrapper
100. Harrow is an implement used to
(a) level the ground only (b) breaks the clouds (c) stir the soil (d) all of above

Answer- Key

Code: TMI-10 (Tractor Mechanic Instructor)

Q.	Ans.	Q.	Ans	Q.	Ans.	Q.	Ans.
1	C	26	B	51	B	76	C
2	B	27	C	52	C	77	D
3	C	28	C	53	B	78	D
4	D	29	B	54	D	79	B
5	A	30	D	55	A	80	D
6	B	31	B	56	C	81	D
7	B	32	C	57	D	82	A
8	B	33	A	58	B	83	B
9	B	34	D	59	C	84	A
10	B	35	B	60	A	85	D
11	C	36	D	61	C	86	A
12	C	37	C	62	B	87	B
13	C	38	C	63	A	88	D
14	B	39	B	64	A	89	B
15	B	40	C	65	B	90	C
16	D	41	D	66	D	91	A
17	D	42	D	67	B	92	C
18	A	43	A	68	B	93	B
19	A	44	B	69	A	94	C
20	D	45	B	70	C	95	C
21	A	46	A	71	B	96	A
22	D	47	A	72	A	97	D
23	D	48	C	73	D	98	D
24	B	49	D	74	C	99	A
25	D	50	A	75	B	100	D