MAHARASHTRA STATE BOARD OF TECHNICAL EDUCATION

(Autonomous) (ISO/IEC - 27001 - 2005 Certified)

WINTER- 2016 EXAMINATION Model Answer

Subject Code:

17101

Important Instructions to examiners:

- 1) The answers should be examined by key words and not as word-to-word as given in the model answer scheme.
- 2) The model answer and the answer written by candidate may vary but the examiner may try to assess the understanding level of the candidate.
- 3) The language errors such as grammatical, spelling errors should not be given more importance. (Not applicable for subject English and Communication Skills.)
- 4) While assessing figures, examiner may give credit for principal components indicated in the figure. The figures drawn by candidate and model answer may vary. The examiner may give credit for any equivalent figure drawn.
- 5) Credits may be given step wise for numerical problems. In some cases, the assumed constant values may vary and there may be some difference in the candidate's answers and model answer.
- 6) In case of some questions, credit may be given by judgment on part of examiner of relevant answer based on candidate's understanding.
- 7) For programming language papers, credit may be given to any other program based on equivalent concept.

Q.	Sub	Answer	Marking
No.	Q. N.		Scheme
1.		Answer any <u>TEN</u> of the following in 2-3 sentences each:	(20)
	(a)	Why did Sudha Murthy advise Narayana Murthy to continue with	
		the job?	
		Ans: Sudha Murthy advised Narayana Murthy to continue with the job	
		because he would have to resign from his job in order to start a new	
		company. Considering the financial condition of the family, this seemed impossible.	02
	(b)	When does Ajay recall his teacher?	
		Ans: In early 1991, Ajay suffered a massive heart attack. This was the	0.2
		time when he recalled his teacher, Mrs. Sheila Kumar.	02
	(c)	What are Dr. APJ Abdul Kalam's views on dreams?	
		Ans: Dr. Kalam says that we must dream big and follow our dreams.	
		According to him, dreams are nothing but goals or mission in life. We	
		should convert our goal and mission into success in spite of problems.	02
	(d)	What is the effect of eating too much?	
		Ans: Eating too much food in one go drains the energy after some time.	
		It also gives feeling of being bloated or deprived of energy. Therefore, to	
		keep our energy evenly distributed, we should take small amounts of	02
		food at regular intervals.	02

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Q. No.	Sub Q. N.	Answer	Marking Scheme
1.	(e)	Mention two phrases of similar meaning 'nothing is impossible'. Ans: Following are the phrases of similar meaning 'nothing is impossible': 1) Where there is will, there is a way.	Scheme
		 2) If you think you can, you can. 3) Whatever the mind conceives and believes it can achieve. (Note: Students are expected to write any two phrases from given above.) 	02
	(f)	State the steps to be taken to achieve a mature and integrated personality. Ans: To achieve a mature and integrated personality, one should realize the potential as a human being. This can be achieved through personal	
		fulfillment. One can learn to achieve and maintain a positive, optimistic and cheerful mental attitude in all the circumstances.	02
	(g)	Why do some companies not desire to manufacture touch screen device? Ans: Some companies do not desire to manufacture touch screen devices because it is expensive to manufacture and they are aware of the price of the device.	02
	(h)	What is Sudha Murthy's profile? Ans: Sudha Murthy is a graduate of the Indian Institute of Science in Bangalore, which was considered as prestigious achievement. She was employed with Telco as a system analyst.	02
	(i)	Compare the use of plastics by Indians, Europeans and Americans. Ans: The average human in India uses 3 kg of plastic per person per year. That's far lower than the European who consumes 60 kg per year and the American who consumes 80 kg. India being a populous country, the amount of plastic used is more.	02
	(j)	Why do we need to keep our combs clean? Ans: We need to keep our combs clean because dirt, oil, dry skin flakes and bacteria stay housed in the combs. In effect, we are brushing all those dirt over and over again. So keeping our combs clean is a must if you want to keep your hair clean.	02
	(k)	Which incident taught Dr. Kalam the value of Planning, Teamwork and Time? Ans: As per Prof. Srinivasan's instructions, Dr. Kalam and his friends had to complete a workable project of designing low-level (low altitude)	

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1.		attack fighter aircraft within six months. The project was disapproved by the professor just two weeks before the deadline. They worked hard together day and night, Saturdays and Sundays; and completed the project within time. This incident taught him the value of planning, teamwork and time.	02
	(1)	What are Malathi Holla's expectations from disabled people? Ans: Malathi Holla expects disabled people to accept the naked truth of disability even though it is not easy. They should realize that only one part is damaged and they can compensate with the other. She also advised that it is not the end. Disabled people have to be mentally strong and they should not grumble. On the other hand they must cultivate positive trails.	02
2.	(A) (a)	Answer the following in about 75 words (Any THREE): How has plastic spoiled the land? Ans: The indefinite period of time that it takes for the average plastic bag to breakdown can be hundreds of years. Every plastic bag that ends up in the woodlands of the country threatens the natural progression of wildlife. The accumulation of plastics prevents the sunlight from entering the soil and thus destroys the beneficial bacteria necessary for soil fertility. Plastic is one of the few modern chemical materials that is not biodegradable. Therefore it can remain in a landfill for millions of years and affects the crops. Research proves that one plastic bag, littering in the landfill, has the potential to unintentionally kill one animal every three months due to intake or inhalation. Plastic waste blocks drains and gutters, stopping the flow of rain water and causing an overflow that becomes the breeding ground for germs and bacteria causing many diseases. Thus plastic spoils the land in many ways.	(12)
	(b)	Explain the importance of a teacher in a student's life. Ans: A teacher plays very important role in a student's life. The teacher facilitates the knowledge to the students and teaches them how to gain more and more knowledge. The teacher also teaches moral values to the students which make them good human being. The teacher is sometimes a guide, a philosopher, a counselor, an encourager etc Every part of the students' life is influenced by the teacher. At higher level, the teacher guides the students not only to pursue a bright career but also to lead a great and successful life. The teacher also encourages the students in various situations like competition and examination. Therefore one can say that a teacher is a blessing in a student's life in a true sense.	04



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2.	(c)	Describe any other technological innovation you know. Ans: An LED TV represents an advance technology. LED TVs are like LCD TVs. The difference is just that these new sets use LED backlights rather than the fluorescent-type backlights used in most LCD TVs. There are currently two main ways that LED backlighting is applied. One type of LED backlighting is referred to as Edge Lighting. In this method, a series LED backlights are placed along the outside edges of the screen. The light is then dispersed across the screen. The other type of LED backlighting is referred to as Full-Array (also referred to sometimes as Full LED or Direct Lit LED). In this method, several rows of LEDs are placed behind the entire surface of the screen. The new LED TV sets offer the following things: 1. Lower power consumption. 2. No Mercury used as in some other LCD backlight systems. 3. More balanced color saturation.	04
	(d)	How can a person with a positive attitude contribute to the society? Ans: People with a positive attitude in life can contribute a lot to the welfare of the society by making a difference in their work and way of working. They can motivate and encourage the people to serve the society. Such people keep the society happy by their positive thinking. They can help the people to develop peace of mind in them. They are always ready to help the needy people of the society. Social reformers inspire people to join the drive for social cause. Positive attitude of a person maintains healthy relations amongst each other which is quite necessary now-a-days to stay away from stress. In this way, a person with a positive attitude is really an important asset to any society. (Note: Answer/points may vary in all the sub-questions of Q2.(A).)	04
	(B)	Change the narration (Any <u>FOUR</u>):	(04)
	(a)	He said, "I have gone to school everyday".	
		Ans: He said that he had gone to school everyday.	01
	(b)	Monali asked, "What do you want"? Ans: Monali asked what he/she/I/they/we wanted. She said: "Alas! Her only son died"	01
	(c)	She said, "Alas! Her only son died". Ans: She exclaimed with grief/with sorrow that her only son had died.	01
	(d)	He said, "Don't waste your time and work hard." Ans: He advised him/her/me/them/us not to waste his/ her/my/their/our time and to work hard.	01
	(e)	Sagar said, "Will you listen to such a man?" Ans: Sagar asked if/whether he/she/I/they/we would listen to such a man.	01



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3.	(A) (a)	Develop a paragraph on the following in 75 words. (Any ONE): Save girl child Ans: Women are the most important part of the society. However, decrease in the sex ratio of female in India is a major concern. So it is need of an hour to save girl child for various reasons. Girls are equally as important as boys in the society to maintain the social balance. Awareness programme on saving girl child, literacy, empowering women, taking steps by females of the family members to save girl child, giving equal opportunities to girls in every field are some effective steps to save girl child. People should save and respect girl child as they have power to create a whole world. They are equally needed for the growth and development of society.	(06)
	(b)	School life versus College life Ans: School life and College life are two different phases in our life which have lot of differences between them. School life is generally more disciplined than college life. There are several rules and regulations in our school life. There are rules about almost everything in a school such as those pertaining to punctuality, attendance, uniform etc. On the other hand, college life is comparatively not strict in such rules and regulations. There are many examinations in schools whereas there are less examinations in the colleges. College life has many co-curricular and extracurricular activities whereas school life has limited co-curricular and extracurricular activities. (Note: Details/information may vary.)	06
	(B) (a)	Write about 6-8 dialogues on any ONE of the following situations: Between two friends about the importance of Engineering diploma. Ans: Rutik : Hi Tanmay! Tanmay: Hi Rutik! How are you? Rutik : I am fine. What are you doing here in the cyber café? Tanmay: I am filling option form of/for engineering diploma. Rutik : That means you are going for engineering diploma. But why Have you planned for engineering diploma? Tanmay: Engineering diploma is/can be really helpful in our life. It gives us sound technical knowledge as the more importance is given to the practical works/ skills in engineering diploma. Rutik : Oh very nice! what about job opportunities in the industry for diploma holders? Tanmay: There is big demand for diploma engineers in industry now-a-days. Apart from this, student can go for/take admission to direct second year in engineering after engineering diploma. Rutik : That's great. You made a right choice. I too think that I should	(06)
		go for diploma now. Ok then, I have to go. Bye! Tanmay: Bye!	06



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3.	(b)	Between Father and son about importance of 'Reading in life'.	
		Ans:	
		Son : Hi Dad! God morning!	
		Father: Good morning dear!	
		Son: What are you reading dad?	
		Father: This is one of the famous historical novel in Marathi.	
		Son: Is it related to kings, emperors and all? Fether: Ves it is We get to know about the history, the kind of life.	
		Father: Yes it is. We get to know about the history, the kind of life people lived then, the difficulties they found that time etc.	
		Son : I would also like to read such books.	
		Father: Along with fiction, reading non-fiction is also beneficial to	
		gain knowledge and information.	
		Son : Yes, reading magazines that are published for specific and	
		general purposes is also important in our professional and social	
		life.	
		Father: Even reading newspaper daily keeps us updated about what is	
		happening around.	
		Son : Inspirational and motivational reading also helps us keeping our	
		emotional balance.	
		Father: True! Reading itself is a huge source of acquiring knowledge.	
		Son : Exactly! Reading is important not only for students but for	
		each and every person to understand the life in its true sense.	
		Oh! it's too late. I have to go to college. Bye!	
		Father: So keep reading. Bye!	06
		(Note: Details / dialogues may vary.)	
	(C)	Develop a speech on any <u>ONE</u> situation given below:	(04)
	(a)	As a sport incharge of your institute, prepare a speech to welcome	
		the Chief Guest who is the Sport Officer on the occasion of sports	
		day celebration in about 100 words.	
		Ans: Good morning ladies and gentlemen! I, Mr Vishal Salunkhe, sports incharge, welcome you to the Sports	
		Day Celebration. It is my honour to welcome today's Chief Guest Mr.	
		Sandip Khurana who is the Sport Officer of/in Pune Municipal	
		Corporation. He has won many national and international awards in	
		sports. The Government of India has awarded him with the 'Arjuna	
		Award'. Sir, it is an honour and a privilege for us to have you with us	
		today.	
		I also welcome the dignitaries on and off the dais. My dear students	
		are also welcome for the sports day celebration. Once again I welcome	
		all of you for this function. Hope you will have a great time.	
		Now I request our today's chief guest to take over the proceedings.	
		Thank you.	04
	(b)	As the Head of Civil Engineering department of your institute,	
		prepare a speech in about 100 words for the Principal's Send off	
		function.	
		Ans: Good afternoon ladies and gentleman!	
		Today we have gathered here for send off function of Dr. R. D.	
		Satav, principal of our college. He has put in total 16 years of service as	0.6/11



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3.		an HOD of Mechanical Department and 5 years as a principal of our institute. He has worked with enthusiasm and devotion and contributed positively for the development of the institution. He maintained a good relationship with faculties. He will retire this month end after putting 21 years of dedicated service. I wish him good health, peace of mind and lots of happiness in the years to come. Once again I take this opportunity to wish Dr. Satav a happy retired	
		life. May god bless you with a long life. Thank you. (Note: Details may vary.)	04
4.	(A) (a)	Write the meaning of the following pair of words and use them in sentences of your own (any <u>TWO</u>): Meal - Mill	(04)
		Ans: Meal: Meaning: Any of the regular occasions in a day when a reasonably large amount of food is eaten. Sentence: The charges include an evening meal and breakfast.	1/ ₂ 1/ ₂
		Mill: Meaning: A building equipped with machinery for grinding grain into flour/ facilities for manufacturing Sentence: I visited the grain mills with my mother yesterday.	1/ ₂ 1/ ₂
	(b)	Complement - Compliment Ans: Complement: Meaning: something that completes or makes perfect Sentence: A good ice-cream is a complement to this meal.	1/ ₂ 1/ ₂
		Compliment: Meaning: A polite expression of praise or admiration Sentence: His sincere compliment boosts their morale.	1/ ₂ 1/ ₂
	(c)	Disease - Decease Ans: Disease: Meaning: illness/sickness/ailment Sentence: Neck pain can be the result of many diseases in the structure	1/2
		of the neck.	1/2
		Decease: Meaning: A person's death Sentence: He held the post until his untimely decease in 2010. (Note: Sentences may vary.)	1/ ₂ 1/ ₂
	(B) (a)	Make sentences using the following collocations (Any <u>FOUR</u>): Take an exam: Why don't you take an exam?	(04) 01
	(b)	Keep a secret: He promised his mother to keep a secret.	01
	(c)	Do Nothing: He always fails in the exams as he does nothing to pass.	01



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4.	(d)	Save electricity: It is our responsibility to save electricity.	01
	(e)	Run out of time: Many students ran out of time in the examination. (Note: Sentences may vary.)	01
	(C) (i) (a)	Write the synonyms of the following words (Any <u>TWO</u>): Eminent: Well-known/renowned/important/prominent	(02) 01
	(b)	Ample: Plenty/sufficient/abundant	01
	(c)	Anxious: Nervous/restless/uneasy	01
	(C)(ii) (a)	Write the antonyms of the following words (Any <u>TWO</u>) Expand x Contract	(02) 01
	(b)	Industrious x Lazy/ Indolent	01
	(c)	Diffident x Confident	01
	(D)		
	(a)	Write two words beginning with Prefix : Semi-Ans: 1. Semi-final 2. Semi-automatic	(02) 01 01
	(b)	Write two words ending with suffix : -hood	(02)
		Ans: 1. Childhood	01
		2. Neighbourhood	01
		(Note: Words may vary.)	
5.	(A)	Read the following passage carefully and answer the questions given below: When Swami Vivekanand arrived in Chicago, another difficulty arose. He had somehow lost the addresses of the persons he had to meet. So he did not know what to do. It was a very cold right and he spent it in a big box which he found near the station. In the morning he set out to find	(12)
		his friends. But no one could give him any help. At last he sat down, tired and sad, on the roadside. He put his trust in God and believed that he would help him. After a while the door of a very big house in front of him opened. A woman came out, looked at him and said in a very soft voice, "Sir, have you come to attend the Parliament of Religions?" Swami Vivekanand told her all about his difficulties. The kind lady took him into her house, gave him a meal and then went with him to the office of the Parliament of Religions. In the meanwhile Swami Vivekanand was accepted as a delegate and joined the other delegates who were attending the Parliament. He found that he was in the midst of very learned persons.	

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5.	(a)	Why did Swami Vivekanand go to Chicago? Ans: Swami Vivekanand went to Chicago to attend the Parliament of Religions.	01
	(b)	In what difficulty did he find himself when he reached Chicago? Ans: When he reached Chicago, he had somehow lost the addresses of the persons he had to meet. So he did not know what to do.	02
	(c)	How did an American lady help him? Ans: An American lady helped him by taking him into her house, giving him a meal and then going with him to the office of the Parliament of Religions.	02
	(d)	Where did he sleep at night? Ans: At night, he slept in a big box which he found near the station.	01
	(e)	What did he see when he attended the Parliament of Religions? Ans: When he attended the Parliament of Religions, he saw that he was in the midst of very learned persons.	02
	(f)	What did he do when he failed to find his friends in spite of great efforts? Ans: When he failed to find his friends in spite of great efforts, he sat down, tired and sad, on the roadside. He put his trust in God.	02
	(g)	Why did he not lose courage at that time? Ans: He did not lose courage at that time because he put his trust in God and believed that He would help him.	02
	(B) (a)	Rewrite the following sentences in Active/Passive voice: (Any Four) A meeting was called by him. Ans: He called a meeting.	(04) 01
	(b)	Get out. Ans: You are ordered to get out.	01
	(c)	Kabir sings a song. Ans: A song is sung by Kabir.	01
	(d)	Open the door. Ans: Let the door be opened.	01
	(e)	He makes a kite. Ans: A kite is made by him.	01



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6.	(A)	Fill in the blanks with suitable articles (Any FOUR):	(04)
	(a)	At college he was union leader. Ans: At college he was a union leader.	01
		Ans: At conege he was <u>a</u> union leader.	01
	(b)	man is a social animal.	
		Ans: No Article/A man is a social animal.	01
	(c)	The rich should help Poor. Ans: The rich should help the Poor.	01
		Ans. The field should help the 1 oof.	U1
	(d)	We need Ashoka to teach the lesson of peace, love and duty.	
		Ans: We need <u>an</u> Ashoka to teach the lesson of peace, love and duty.	01
	(e)	fellow is an impressive one. Ans: The fellow is an impressive one.	01
		Ans: <u>The</u> renow is an impressive one.	01
	(B)	Fill in the blanks with suitable prepositions (Any FOUR):	(04)
	(a)	She cares very much her brother.	
		Ans: She cares very much <u>for</u> her brother.	01
	(b)	The UD office kept the file the supposed	
	(b)	The HR office kept the file the cupboard. Ans: The HR office kept the file in the cupboard.	01
		The fire office kept the me <u>m</u> the cupotate.	V1
	(c)	The directors did not agree his proposal.	
		Ans: The directors did not agree to his proposal.	01
	(4)	The first shift of factory starts 7.00 cm	
	(d)	The first shift of factory starts 7.00 a.m. Ans: The first shift of factory starts at 7.00 a.m.	01
		This. The first sinit of factory starts at 7.00 a.m.	01
	(e)	The cupboard is made imported glass.	
		Ans: The cupboard is made <u>of</u> imported glass.	01
	(0)	Eill in the blanks with with he is a second of the EOUD	(0.4)
	(C) (a)	Fill in the blanks with suitable conjunctions (Any FOUR): They were arrested they had stolen gold.	(04)
	(a)	Ans: They were arrested <u>because/as</u> they had stolen gold.	01
	(b)	Catch him you can.	
		Ans: Catch him <u>if</u> you can.	01
	(0)	The box was very heavy I sould not lift it	
	(c)	The box was very heavy I could not lift it. Ans: The box was very heavy so/therefore I could not lift it.	01
		The son was very heavy sorther erose I could not life it.	
	(d)	He returned home I left.	
		Ans: He returned home when I left.	01
	(0)	Poth the weakens need were fixed	
	(e)	Both the workers peons were fired. Ans: Both the workers and peons were fired.	01
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6.	(D)	Rewrite the sentence using the suitable form of Verbs (Any FOUR):	(04)
	(a)	Pranav (score) 1009 runs in the last match.	
		Ans: Pranav <u>scored</u> 1009 runs in the last match.	01
	(b)	He (visit) the Taj Mahal recently.	
		Ans: He <u>visited</u> the Taj Mahal recently.	01
	(c)	The Volcano (create) havoc ever since it erupted.	
		Ans: The Volcano has been creating havoc ever since it erupted.	0.4
		We shall west have until John (some)	01
	(4)	We shall rest here until John (come).	
	(d)	Ans: We shall rest here until John <u>comes</u> .	01
		They (go) back to the sitting room.	U1
	(e)	Ans: They went/will go back to the sitting room.	
	(6)	Ans. They went win go back to the sitting room.	01
			01

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