



**West Bengal State Council of Technical and Vocational Education
and Skill Development
(Technical Education Division)**

KarigariBhawan, Plot-B/7, Action Area-III, Rajarhat, Newtown, Kolkata-700160

Memo No. WBSCTVESD/TED/I/2019-20/2028

Dated, 4th January, 2021

From: Koushik Bandyopadhyay

Senior Administrative Officer (Examination)
WBSCT&VE&SD (TED)

To: The Principal/Officer-in-Charge

All Government / Govt. Sponsored/ Self-Financed Diploma Institutions

Sub: *Sending of Model Question Papers for odd Semester Examinations in the Academic Session 2020-21*

Sir/Madam,

This Council is very much grateful to your good office for providing constant and truthful support to the different academic activities of the Council. Now, as usual, the Council will require Model Questions (**MQs**) for the forth coming odd semester examinations for the 1st, 2nd and 3rd year diploma students in the Academic Session 2020-21. The Council will shortly notify the detailed academic schedule for them.

In view of the above, we request you to arrange sending of MQs for all diploma subjects taught by the subject teachers of your Institute in the **1st, 3rd & 5th semesters** to facilitate paper setting by the Council. Modalities of preparing and sending the MQs are furnished here in under for uniformity and convenience.

1. Individual subject teachers will prepare the MQs (**in MS WORD file only**) and forward those to the respective HODs of his/her Institute. Each MQ should carry **full name** & **mobile number** of the subject teacher at the end of the questions.
2. HODs have to verify the MQs received from the subject teachers and forward those (**including own MQs**) to the Principal/Officer-in-Charge of his/her Institute. HODs shall provide their **full name** & **mobile number** below the same of the paper setters in all MQs of his/her department.
3. MQs should be framed following standard question pattern (followed by the Council under normal situation) of the individual subjects mentioning **modules/units**.
4. MQs should carry proper distribution of marks for all questions. Correct answer of all short answer type questions [e.g. MCQ, True/False, Fill in the Blanks etc.] should be mentioned at the end of each question within brackets.
5. MS WORD file name for each MQ should be given in the following pattern by the subject teachers.
<Institute Code>< Branch Code>< Subject Code>. [Example: **APC_ME_341**].
Subject code list has been attached herewith for convenience of the subject teachers/HODs.

6. Folders containing MS Word files of the MQs must be named by the respective HODs in the following pattern.
<Institute Code><Branch>< Total number of Model Question> [Example: APC_ME_15]
7. Finally, Principals / Officers-in-Charge have to arrange uploading of the folders containing MQs of respective departments including 'Science & Humanities' Department and a statement of the MQs in Excel broad sheet in the Google Drive and create a link. The created link should be sent to the Council at diploma.mq@gmail.com positively by **22.01.2021**.
8. The Excel broad sheet must have the following fields in the given order.

Sl No	Name of the Subject Teacher	Department	MQ sent (Yes/No)	Subject Code of MQ	Reason for not sending MQ [For no MQ sent]

In fine, we once again cordially request you to take note of the above and immediately issue a notification advising all teaching faculties of all diploma branches including 'Science & Humanities department of your Institute to prepare "Model Question" for the subjects taught by them in the odd semesters and send those to the respective HODs for taking necessary further actions as per the aforesaid guidelines. Also, please mail a copy of the issued notification to the Council at examcell@webscte.co.in of the Council latest by **07.01.2021**.

We solicit your kind cooperation in this regard.
Thanking you,

Yours faithfully,



Koushik Bandyopadhyay
Senior Administrative Officer (Examination)
WBSCT&VE&SD

Copy for information to:

1. Chairperson, WBSCT&VE&SD
2. CAO, WBSCT&VE&SD
3. Director, DTET
4. PS to the Hon'ble Minister-in-Charge, Dept. of TET&SD
5. Sr. PA to the Principal Secretary, Dept. of TET&SD
6. SAO (TE), WBSCT&VE&SD
7. AO (Examination), WBSCT&VE&SD



Koushik Bandyopadhyay
Senior Administrative Officer (Examination)
WBSCT&VE&SD

WBSCT&VE&SD**CODE OF QUESTION PAPERS FOR ODD SEMESTER****1st Semester (Revised from 2020-21) (Having Full Marks of 60 or 30) FOR REGULAR STUDENTS**

Branch	Sl. No.	Name of the Subject	Code No.
COMMON TO ALL	1	Communication Skills in English	101(S)
	2	Applied Physics-I	102(S)
	3	Applied Chemistry	103(S)
	4	Mathematics-I	104(S)
COMMON TO ALL EXCEPT ARCH	5	Engineering Graphics	105(S)
ARCH	6	Architectural Drawing-I	106(S)

3rd Semester (Revised from 2013-14) (Having Full Marks of 70 or 35) FOR REGULAR AND CASUAL STUDENTS

Branch	Sl. No.	Name of the Subject	Code No.
ARCH	1	Theory of Structures	301(S)
	2	History of Architecture-I	302(S)
	3	Materials & Methods of Construction-I	303(S)
	4	Building Services & Equipments-I	304(S)
AE	5	Fundamentals of Electronics (For AE)	305(S)
	6	Advanced Strength of Materials (For AE)	306(S)
	7	Heat Power Engineering-I	307(S)
	8	Automotive Engines	308(S)
	9	Automotive Chassis-I	309(S)
	10	Materials Science & Manufacturing Process	310(S)
CE	11	Surveying	311(S)
	12	Building Material & Construction	312(S)
	13	Concrete Technology	313(S)
	14	Mechanics of Structure	314(S)
	15	Hydraulics (For CE)	315(S)
	16	Civil Engineering Drawing (4 Hrs. Exam)	316(S)
CHE, EE, EPS & EEIC	17	Basic Electronics	317(S)
EE, EPS, EEIC & EEE	18	Electrical Circuit & Network	318(S)
	19	Electrical Machine-I	319(S)
EE	20	Programming Concept using C	320(S)
	21	Electrical Measuring Instrument	321(S)
	22	Elements of Mechanical Engineering	322(S)
ME & MEP	23	Advanced Strength of Materials	323(S)
	24	Fundamentals of Electronics	324(S)
	25	Engineering Materials	325(S)
ME	26	Thermal Engineering-I	326(S)
	27	Manufacturing Processes-I	327(S)
	28	Mechanical Engineering Drawing (2 Hrs. Exam)	328(S)
MEP	29	Digital Logic Design (For MEP)	329(S)
	30	Machine Tools	330(S)

Branch	Sl. No.	Name of the Subject	Code No.
CST, CSWT & IT	31	Electronic Devices & Circuits	331(S)
	32	C Programming	332(S)
CSWT & IT	33	Digital Techniques	333(S)
CST	34	Discrete Mathematics (For CST)	334(S)
	35	Digital Logic Design (For CST)	335(S)
	36	Data Structure (For CST)	336(S)
	37	Computer Organization & Architecture	337(S)
CSWT	38	Discrete Mathematics (For CSWT)	338(S)
	39	System Programming	339(S)
	40	Management Information System & ERP	340(S)
IT	41	Discrete Mathematics (For IT)	341(S)
	42	Data Structure (For IT)	342(S)
	43	Computer System & Architecture	343(S)
ETCE, ECE	44	Network Analysis	344(S)
ETCE, EEE, ECE	45	Analog Electronics-I	345(S)
ETCE & ECE	46	Digital Electronics	346(S)
	47	Electrical Machine (For ETCE & ECE)	347(S)
	48	Computer Programming Language	348(S)
EIE	49	Fundamentals of Electronics (For EIE)	349(S)
EIE & ICE	50	Circuit Theory	350(S)
	51	Fundamentals of Instrumentation	351(S)
EIE	52	Electrical Measurement & Measuring Instruments	352(S)
	53	Electrical Machine (For EIE)	353(S)
	54	Optical Instrumentation	354(S)
CHE & MS	55	Environmental Engineering	355(S)
CHE	56	Computer Oriented Numerical Method	356(S)
	57	Fundamentals of Chemical Engineering	357(S)
	58	Fluid Mechanics	358(S)
	59	Chemical Engineering Thermodynamics	359(S)
MLT	60	Human Anatomy	360(S)
	61	Human Physiology	361(S)
	62	Haematology & Body Fluids	362(S)
	63	Biomedical Instrumentation-I	363(S)
	64	Basic Electrical & Electronics	364(S)
	65	Computer Programming in C	365(S)
MET	66	Fundamentals of Electronics (For MET)	366(S)
	67	Fundamentals of Metallurgy	367(S)
	68	Metallurgical Thermodynamics	368(S)
	69	Mechanical Testing of Metals	369(S)
	70	Mechanical Engineering	370(S)
	71	Introduction to Mining	371(S)

Branch	Sl. No.	Name of the Subject	Code No.
MIN	72	Explosives, Blasting Practices & Gas Detection	372(S)
	73	Underground Coal Mining Methods & Fuel Technology	373(S)
MS	74	Basic Surveying-I	374(S)
	75	Basic Surveying-II	375(S)
	76	Methods of Mining	376(S)
MT	77	Introduction to Web Designing (HTML & CSS)	377(S)
	78	Image & Graphics in Multimedia	378(S)
	79	Multimedia Design	379(S)
	80	Digital Photography	380(S)
AGE	81	Basic Soil Science	381-A(S)
	82	Surveying & Levelling	381-B(S)
	83	Agricultural Process Engineering	381-C(S)
	84	Thermodynamics & Heat Transfer Process	381-D(S)
	85	Environmental Engineering (For AGE)	381-E(S)
	86	Hydraulics (For AGE)	381-F(S)
PT	87	Introduction to Packaging Technology	382-A(S)
	88	Hazards in Packaging	382-B(S)
	89	Cellulose & Fiber Technology	382-C(S)
	90	Basic Electronics (For PT)	382-D(S)
	91	Introduction to Thermodynamics & Heat Transfer	382-E(S)
PHO	92	Principles of Photography	383-A(S)
	93	Indoor & Outdoor Still Photogrpahy-I	383-B(S)
	94	Lighting Technique	383-C(S)
	95	Darkroom Technique in Still Photography	383-D(S)
	96	Photo Design	383-E(S)
DP	97	Presswork-I	384-A(S)
	98	Pre-press Repro Technique	384-B(S)
	99	Typesetting & Composition	384-C(S)
	100	Printers' Material Science-I	384-D(S)
SE	101	Chain & Compass Survey	385-A(S)
	102	Cadastral Survey & Plane Table Surveying	385-B(S)
	103	Levelling & Tachometry	385-C(S)
	104	Theodolite Survey	385-D(S)
	105	Materials & Construction Practices	385-E(S)
FPT	106	Process Instrumentation Fundamentals	386-A(S)
	107	Food Microbiology	386-B(S)
	108	Chemistry of Food-I	386-C(S)
	109	Unit Operation of Chemical Engineering-I	386-D(S)
LGT	110	Fundamentals of Leather Goods Technology	387-A(S)
	111	Material Study (Leather)	387-B(S)
	112	Elements of Basic Designing & Pattern Developing	387-C(S)

Branch	Sl. No.	Name of the Subject	Code No.
	113	Leather Goods Accessories	387-D(S)
FWT	114	Principles of Footwear Manufacture	388-A(S)
	115	Method of Footwear Manufacture-I	388-B(S)
	116	Principles of Shoe Designing & Pattern Cutting-I	388-C(S)
	117	Selection of Material Leather & Accessories	388-D(S)
MOPM	118	Environmental Engineering (For MOPM)	389-A(S)
	119	Business Statistics-II	389-B(S)
	120	Conversational English-II	389-C(S)
	121	Advanced Accountancy	389-D(S)
	122	Rural Development & Management	389-E(S)
EPS, EEIC & EEE	123	Electrical & Electronic Measuring Instruments	390(S)
EPS & EEIC	124	Programming Concept in C	391(S)
EPS	125	Thermodynamics, Heat Power & Foundation	392(S)
EEIC	126	Control Theory	393(S)
EEE	127	C Programming (For EEE)	394(S)
ICE	128	Analog Electronics & Fundamentals	395-A(S)
	129	Basic Control System	395-B(S)
	130	Electrical Measurement & Measuring Instruments (For ICE) (2 Hrs Exam)	395-C(S)
	131	Electrical Machine (For ICE)	395-D(S)
GIS	132	Spatial Statistics-I	396-A(S)
	133	Geography & Cartography	396-B(S)
	134	Demography & Social Science	396-C(S)
	135	Database Management System	396-D(S)
	136	Applied Surveying	396-E(S)

5th Semester (Revised from 2013-14) (Having Full Marks of 70 or 35) FOR REGULAR AND CASUAL STUDENTS

Branch	Sl No	Name of the Subject	Code
ARCH	1	Project & Disaster Management	501(S)
	2	Design of Structures-II	502(S)
	3	Contemporary Architecture-I	503(S)
	4	Materials & Methods of Construction-III	504(S)
	5	Estimating, Costing, Specification & Valuation-I	505(S)
	6	Alternative Building Technology-I (Elective)	506/1(S)
	7	Interior Design-I (Elective)	506/2(S)
	8	Landscape Design-I (Elective)	506/3(S)
AGE	9	Irrigation & Drainage Engineering	507(S)
	10	Agricultural Waste Utilisation (2 Hrs. Exam)	508(S)
	11	Farm Power	509(S)
	12	Seed Processing Technology	510(S)
	13	Refrigeration & Air-Conditioning (For AGE)	511(S)
	14	Soil & Water Conservation (2 Hrs. Exam)	512(S)
	15	Entrepreneurs Development (Elective)	513/1(S)

Branch	Sl. No.	Name of the Subject	Code No.
	16	Remote Sensing & GIS (Elective)	513/2(S)
	17	Climatology (Elective)	513/3(S)
AE	18	Automobile Component Design (2 Hrs. Exam)	514(S)
	19	Automotive Chassis-II	515(S)
	20	Hydraulics & Pneumatics	516(S)
	21	Earth Moving Equipments & Farm Machinery	517(S)
	22	Automotive Electrical & Electronics	518(S)
	23	Mechatronics (For AE) (Elective)	519/1(S)
	24	Vehicle Aerodynamics & Design (Elective)	519/2(S)
	25	Vehicle Testing (Elective)	519/3(S)
	26	Environmental Pollution & Control (Elective)	519/4(S)
CHE	27	Reaction Kinetics & Reactor Design	520(S)
	28	Chemical Technology-I	521(S)
	29	Separation Process-I	522(S)
	30	Process Control Engineering	523(S)
	31	Petroleum Refinery Engineering (Elective)	524/1(S)
	32	Packaging Technology (Elective)	524/2(S)
CE	33	Building Services & Entrepreneurship Development	525(S)
	34	Contract & Accounts (2 Hrs. Exam)	526(S)
	35	Transportation Engineering-II	527(S)
	36	Design of RCC Structure	528(S)
	37	Geotechnical Engineering-II (2 Hrs. Exam)	529(S)
CST, CSWT, IT	38	Software Engineering	530(S)
CST & IT	39	Java Programming	531(S)
	40	Operating Systems	532(S)
CST	41	Theory of Computation	533(S)
	44	Advanced Microprocessor Technology (Elective)	534/1(S)
	42	Network Management & Administration (Elective) (with CSWT & IT)	534/2(S)
	43	Multimedia & Animation Technique (Elective) (Common with IT)	534/3(S)
CSWT	45	Object Oriented Programming using Java	535(S)
	46	Computer Network (For CSWT)	536(S)
	47	Relational Database Management System	537(S)
	42	Network Management & Administration (Elective) (with CST & IT)	534/2(S)
	49	Unix Administration (Elective)	538/1(S)
	48	Windows Programming (Elective) (Common with IT)	538/2(S)
IT	50	Principle of Communication	539(S)
	42	Network Management & Administration (Elective) (with CST & CSWT)	534/2(S)
	43	Multimedia & Animation Technique (Elective) (Common with CWT)	534/3(S)
	48	Windows Programming (Elective) (Common with CSWT)	538/2(S)
EE	51	Power Electronics & Drives	540(S)
EE, EEIC, EPS,	52	Microprocessor & Microcontroller	541(S)

Branch	Sl. No.	Name of the Subject	Code No.
EEE	53	Switchgear & Protection	542(S)
	54	Utilisation, Traction, Heating & Drives	543(S)
EE, EEIC, EEE	55	Illumination Engineering (Elective)	544/1(S)
EE, EEIC, EPS, EEE	56	Heating, Ventilation & Air-Conditioning (Elective)	544/2(S)
EE, EEIC, EPS	57	Energy Conservation & Audit (Elective)	544/3(S)
EE, EPS, EEE	58	Electric Traction (Elective)	544/4(S)
EIE	59	Process Instrumentation-II	545(S)
	60	Advanced Process Control	546(S)
	61	Industrial Electronics	547(S)
	62	Microprocessor	548(S)
	63	Analytical Instrumentation (2 Hrs. Exam)	549(S)
ETCE	64	Digital & Microwave Communication Engineering	550(S)
	65	Electronics Measurement	551(S)
	66	Industrial Electronics-I (2 Hrs. Exam)	552(S)
	67	Microcontroller & Embedded System	553(S)
	68	Computer Network-I (Elective) (2 Hrs. Exam)	554/1(S)
	69	Medical Electronics-I (Elective) (2 Hrs. Exam)	554/2(S)
	70	Digital Signal Processing-I (Elective) (2 Hrs. Exam)	554/3(S)
FPT	71	Computer Hardware Maintenance-I (Elective) (2 Hrs. Exam)	554/4(S)
	72	Technology of Food-I	555(S)
	73	Technology of Food-II	556(S)
	74	Technology of Food-III	557(S)
	75	Dairy Technology	558(S)
FWT	76	Bakery & Confectionary Technology	559(S)
	77	International Trend on Footwear Technology (2 Hrs. Exam)	560(S)
	78	Method of Footwear Manufacture-III	561(S)
	79	Principles of Footwear Designing & Pattern Developing-III	562(S)
	80	Footwear Machinery-II	563(S)
	81	Footwear Costing & Quality Management	564(S)
	82	Leather Technology-I (Elective) (2 Hrs. Exam)	565/1(S)
	83	Leather Goods Technology-I (Elective) (2 Hrs. Exam)	565/2(S)
LGT	84	Leather Goods Costing	566(S)
	85	Quality Assurance & Total Quality Management (2 Hrs. Exam)	567(S)
	86	Leather Goods Merchandising (2 Hrs. Exam)	568(S)
	87	Machineries for Leather Goods-II	569(S)
	88	Material Testing	570(S)
	89	Footwear Technology-I (Elective) (2 Hrs. Exam)	571/1(S)
	90	Leather Technology-I (Elective) (2 Hrs. Exam)	571/2(S)
	91	Fluid Mechanics & Machinery	572(S)
	92	Advanced Manufacturing Processes	573(S)
	93	Measurement & Control (2 Hrs. Exam)	574(S)

Branch	Sl. No.	Name of the Subject	Code No.
ME	94	Power Engineering	575(S)
	95	Automobile Engineering (Elective) (2 Hrs. Exam)	576/1(S)
	96	Mechatronics (Elective) (2 Hrs. Exam)	576/2(S)
	97	Power Plant Engineering (Elective) (2 Hrs. Exam) (Common with MEP)	576/3(S)
	98	Tool Engineering (Elective) (2 Hrs. Exam)	576/4(S)
MEP	99	Welding Technology	577(S)
	100	Engineering Metrology (2 Hrs. Exam)	578(S)
	101	Automation & CNC Machines	579(S)
	102	Thermal Power	580(S)
	103	Modern Machining Processes	581(S)
	104	Power Plant Engineering (Elective) (2 Hrs. Exam) (Common with ME)	576/3(S)
MLT	105	Clinical Microbiology	582(S)
	106	Biomedical Instrumentation-III	583(S)
	107	Radiography Techniques (2 Hrs. Exam)	584(S)
	108	Electrical & Electronics Measurement (2 Hrs. Exam)	585(S)
	109	Digital Logic Design	586(S)
	110	Hospital & Industrial Management (2 Hrs. Exam)	587(S)
MET	111	Steel Making Process	588-A(S)
	112	Foundry Technology	588-B(S)
	113	Metal Processing	588-C(S)
	114	Energy & Environment Control	588-D(S)
	115	Alloy Steel & Cast Iron (Elective)	588-E/1(S)
MS & MIN	118	Mine Surveying-I	589-A(S)
MS	116	Advance Surveying-II	589-B(S)
	117	Modern Surveying	589-C(S)
	119	Land Laws & Mine Legislation	589-D(S)
MIN	120	Mine Management, Legislation & General Safety-I	590-A(S)
	121	Mine Ventilation-I (2 Hrs. Exam)	590-B(S)
	122	Electrical Engineering & Mechanical Engineering	590-C(S)
MOPM	123	Marketing Management	591-A(S)
	124	Indian Constitution & Contemporary Economic Problems	591-B(S)
	125	Company Law	591-C(S)
	126	Office Administration-I (Elective)	591-D/1(S)
	127	Record Management Principles-I (Elective)	591-D/2(S)
MT	128	Introduction to 3D Modelling & Animation	592-A(S)
	129	Multimedia Technology-II (Audio & Video)	592-B(S)
	130	Audio Visual Media	592-C(S)
	131	Multimedia Authoring-I	592-D(S)
PT	132	Food Processing & Packaging	593-A(S)
	133	Packaging Machinery & Equipment	593-B(S)
	134	Packaging Economics, Legislation & Management	593-C(S)

Branch	Sl. No.	Name of the Subject	Code No.
	135	Package Printing Technology	593-D(S)
	136	Principle of Refrigeration & Cold Storage (2 Hrs. Exam)	593-E(S)
PHO	137	Motion Picture Photography-I	594-A(S)
	138	Videography-II	594-B(S)
	139	Multimedia & Animation-II	594-C(S)
	140	Filming & Editing Technique-I	594-D(S)
DP	141	Printers' Costing & Estimating	595-A(S)
	142	Surface Preparation Technique	595-B(S)
	143	Planographic Printing Technique-I	595-C(S)
	144	Printing Machine Maintenance-I	595-D(S)
	145	Binding & Finishing	595-E(S)
SE	146	Geodesy & Astronomy	596-A(S)
	147	GIS & GPS Applications (2 Hrs. Exam)	596-B(S)
	148	Cartography	596-C(S)
	149	Triangulation & Trilateration	596-D(S)
	150	Design of RCC Structure (For SE)	596-E(S)
EEIC	151	Industrial Control-I	597-A(S)
	152	Industrial Instrumentation	597-B(S)
EEIC, EPS	153	Power Plant Instrumentation & Control (Elective)	597-C/1(S)
EPS	154	Analysis of Electrical Power System	598-A(S)
	155	Power Quality	598-B(S)
EEE	156	Industrial Electronics-I (For EEE)	599-A(S)
	157	Transmission & Distribution of Power	599-B(S)
	158	Computer Hardware Maintenance (Elective)	599-C/1(S)
ICE	159	Applied Electronics - II	599-AA(S)
	160	Optical Instrumentation (For ICE)	599-AB(S)
GIS	161	Advance Geographic Information System	599-BA(S)
	162	Application of Geo-Informatics & Spatial Decision Support System	599-BB(S)
	163	Application of GIS in Agriculture (Elective)	599-BC/1(S)
	164	Application of GIS in Water Resources Management (Elective)	599-BC/2(S)
	165	Application of GIS in Watershed Management (Elective)	599-BC/3(S)

3rd Semester (Having Full Marks of 60 or 30) FOR REGULAR STUDENTS OF RE AND ID			
Branch	Sl. No.	Name of the Subject	Code No.
RE	1	Solar Photovoltaic - I	397-A(S)
	2	Solar Thermal	397-B(S)
	3	Renewable Energy Instrumentation Applications	397-C(S)
	4	Thermodynamics and Fluid Power	397-D(S)
	5	Electrical Machine and Measurement	397-E(S)
ID	1	Evolution of Interior Design – I	398-A(S)
	2	Materials & Construction – I	398-B(S)
	3	Indian Art	398-C(S)
	4	Introduction to Structures	398-D(S)
	5	Environmental Science	398-E(S)