Gujarat BOE-2023 Exam Paper-1,2&3

GUJARAT BOILER OPERATION ENGINEER EXAMINATION-2023

PAPER-1(BOILER ENGINEERING-1)

Time: 3.00 Hours Instructions:

SECTION-A (MCQ)

1. Attempt all questions. Each question carries one mark.

2. Do not write or mark anything on the question paper and do not mark anything on answer sheet for identification purpose.

3. Do not rewrite full question. Only write down question number and correct answer.

Q.1: Answer all questions.

[30x1=30 Marks]

Max. Marks: 100

<u>1. Work done in a free</u>	expansion process is				
A. Maximum	B. Min ⁱ imum	C. Positive	D. Zero		
2. What is the unit of H	leat Rate				
A. KJ/KW	B. KW/KJ	C. KJ/KWH	D. KWH/KJ		
3. What is the most pre	eferable dryness fraction	n of the exhaust steam f	or modern steam		
turbine?					
A. 0.99	B. 0.77 Joule	E. 229 Joule	B. 2.88 Joule		
4. 1Kg-m is equal to	51 120 00010		51 1102 00010		
A. 9.81 Joule					
5. The actual vacuum i	n condenser is equal to				
A. Barometric Pr. +	Actual Pr.	B. Barometric Pr	Actual Pr.		
C. Gauge Pr. + Atm	ospheric Pr.	D. Gauge Pr. – Atm	ospheric Pr.		
6. 02 content in atmos	pheric air on weight bas	sis is			
A. 21%	B. 30%	C. 23%	D. 79%		
7. The relief valve of e	conomizer should have a	a minimum diameter of			
A. 19.0mm	B. 32.5mm	C. 50.8mm	D. 63.5mm		
8. What is the cycle of	concentration if the chlo	oride content of boiler w	ater is 186ppm and the		
feed water chloride co	ntent is 38ppm?				
A. 4.89	B. 7068	C. 148	D. 0.204		
9. Which of following is	s considered general pu	rpose welding electrode	? D. E-9015 B9		
A. E-6013	B. E-7018	C. E-8018 B2			
10. Priming in boiler di	rum is due to				
A. High drum level		B. Improper design	n/Construction of boiler		
C. Sudden fluctuat	ion in steam demand	D. All of above			
11. In the case of Boile	er fitted with integral sup	per heater an additional	safety valve shall be		
fitted					
A. At the end of su	per heater outlet				
B. In between drum outlet and super heater inlet					
C. On top of drum					
D. At economizer outlet line					
12. Thinning on tube bends shall comply with the following. Where R=Mean Radius of bend,					
D=Outside Diameter of tube.					
A. 100/[(4R/D)+2]	B. 100/[(4D/R)+2]			
C. 100/[(2R/D)+4]		D. 100/[(2D/R)+4]			

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13. Because of internal construction of a Boiler such that it does not permit the competent person getting inside it for examining closely all its parts, he shall test it by hydraulic pressure to

A. 2 times to working pressure		B. 1.25 times to design pressure			
C. 1.5 times to working pressure		D. 1.5 times to design pressure			
14. Minimum two feed apparatus shall be provided for Boiler where heating surface area exceeds.					
A. 15m2	B. 25m2	C. 10m2	D. 20m2		
15. One Kg of carbon p	broduceskg of ca	rbon dioxide.	D. 11/7		
A. 3/7	B. 4/11	C. 11/3			
16. The velocity of flue is given by.	gases (V) through the c	himney under a static d	raught of (H') meters		
A. V=2gH'	B. V=2g/H'	C. V=h"/2g	D. V=2H'/g		
17. Cation Exchanger	resin is denoted as	. C. ROOH	D. RCOH		
A. R(OH)2	B. RH2				
18. The low combustion	on temperature in FBC B	oilers results in minimal	formation of		
A. SOx	B. NOx	C. CO2	D. CO		
19. The chimney draug	ght varies with				
A. Climate conditio	on la	B. Temperature of	furnace gases		
C. Height of chimn	еу	D. All of the above			
20. With increase in lo	ad, convection super he	ater has			
A. Drooping charac	cteristics	B. Linear character	istics		
C. Rising character	istics	D. Flat characteristics			
21. What is the formul Kilogram of fuel?	a used to calculate the t	heoretical air required (in Kg) to burn one		
A = 4.35[(8/3C+9)]	12+5)-021	B =4 35[(8/3C+8	H2+S)-02]		
C = 4.35[(8/3Cx8H2+S)-02]		D = 4.33[(8/3C+8)]	H2+S)-O2]		
22. Which material u	ised in water wall manuf	facturing of Supercritica	Boiler		
A. SA210 Gr-B B. SA213 T12/T23 C. SA213 T91 D. AI 1301					
23. The velocity of s	team in steam pipe is dir	rectly proportional to			
A. Number of benc	ls in pipe	B. 5th power of the	diameter of pipe		
C. Length of pipe		D. Specific volume	of steam		
24 The height of chim	nev in a power plant is a	overned by			
A. The draft to be o	created norms	B. Sulphur in fuel			
C. Temperature of	flue gas	D. Ash in fuel			
25. What is the pH of a	acid solution that is main	tained during acid clear	ning process of boiler?		
A. pH(2-3)	B. pH(4-7)	C. pH(0)	D. pH(7-7.5)		
26. Power required to	drive a centrifugal pump	o is proportional to			
A. Speed	B. N2	C. N3	D. 1/N2		
27. Equation for Efficie	ency of ligament where r	=Pitch of hole and d=H	ole diameter is		
A. (d-p)/p	B. (p-d)/d	C. (p-d)/p	D. All of above		
28. During hydraulic test of Boiler, the temperature of water used shall not be					
A. Less than 15*C and more than 45*C					
B. Less than 20*C and more than 50*C					
C. Less than 30*C and more than 40*C					
D. Less than 10*C and more than 60*C					

29. The rated discharge capacity of a safety valve which discharge saturated steam shall be calculated using the following equation.

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A. E=	CA/P	B. E=PA/C		C. E=	PAC	D. P=ECA	
30. In Gu carried o	ujarat state eng ut as per	graving of regis	tration n	umber for	small industri	al Boilers shall	be
	Δ	GT-S			B	GTS	

Ê:			B:	GTS	
	GT S				

SECTION-B (Numerical)

Instructions:

1. Attempt all questions. Figures to right side of question indicates individual marks.

2. Do not write or mark anything on the question paper and do not mark anything on answer sheet for identification purpose.

- 3. Mark suitable assumption if required with justification.
- 4. Use of scientific calculator is permitted.

5. Draw neat sketches wherever it is required. Write next question on next page.

Question No.2: Answer any FOUR of following.

[Marks: 20(5x4)]

Q.2(A): Calculate the size of pipe required to transfer 100TPH of steam at 40 kg/cm2 and 420*C. Velocity in the pipeline is to be maintained at 30m/sec.

Q.2(B): Calculate amount of heat required to produce 5Kg of steam at pressure 5 Bar. Feed water temperature is 20*C & steam is dry saturated.

Q.2(C): Carnot engine working between 377*C & 37*C produce 120kJ of work. Determine Engine thermal efficiency & heat addition in Kcal and KJ.

Q.2(D): The efficiency of a 100TPH, 80kg/cm2, 520*C boiler is 82%. Calculate the quantity of coal required per day if the feed water inlet temperature is 120*C. makeup water is negligible and GCV of coal used is 3600kcal/kg. Calculate the evaporation ratio of the boiler.

Q.2(E): Steam at 100*C is added to ice at 0*C. Find the amount of ice melted and the final temperature when mass of steam is 10.0grams and the mass of ice is 50.0grams.

Question No.3: Answer any T<u>WO</u> of following.

[Marks: 20(10x2)]

Q.3(A): Following readings are noted from a power plant Cooling Tower:

Cooling water flow: 1500m3/hr.	Cooling water inlet temperature: 38*C
Cooling water outlet temperature: 30*C	Wet-bulb temperature: 27*C
Dry-bulb temperature: 45*C	TDS of cooling water: 1500ppm
TDS of make-up water: 250ppm	Evaporation loss: 2%
If Windage loss is negligible Then Calculate:	

(i) Approach, (ii) Range, (iii) Heat load of the cooling tower (iv) COC (Cycle of concentration), (v) Blow-down, (vi) Make-up water required.

Q.3(B): In boiler trial 1250kg of coal is consumed in a 24hours. The mass of water

evaporated is 13000kg and the mean effective pressure is 7bar. The feed water temperature

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is 40*C, heating value of coal is 30000KJ/kg. The enthalpy of 1kg of steam at 7bar is 2570.7KJ/kg. Determine: (1) Equivalent evaporation per kg of coal.

Q.3(C): If a one ball of coal of 150cc volume brakes in to a small 150pcs of ball having a volume of 1cc of each ball, calculate how many times the surface area will increased and exposed to heat for combustion.

Q.4: Determine the height and diameter of the chimney used to produce a draught for a

boiler which has an average coal consumption of 1800kg/hr and flue gases formed per kg of coal fired are 14kg. The pressure losses through the system are given below: [Marks: 15]					
Pressure loss in fuel bed =7mm of wa <mark>ter</mark>	Pressure loss in boiler tubes =7mm of water				
Pressure loss in bends =3 mm of water	Pressure loss in chimney =1.3mm of water				
Pressure head equivalent to velocity of the gases passing through the chimney =1.3mm of water					
The temperature of ambient air and flue gases are 35*C and 310*C respectively.					
Assume actual draught is 80% of theoretical one.					

(2) Efficiency of boiler.

Question No.5: Answer any THREE of following.

[Marks: 5x3=15]

Q.5(A): Calculate tube plate thickness of shell type boiler having working pressure 14.00 Kg/cm2 and diameter between staying points are:

1) Between stay tube, stay tube and shell =315mm.

2) Between gusset, gusset and shell =327mm.

3) Between gusset, stay and shell =300mm.

Consider C =coefficient =0.4 and F =stress = 1363kg/cm2.

Q.5(B): Write down full form of the following abbreviation in connection with code and welding:

1) TEMA	2) GBR-1966	3) ANSI	4) SAW	5) FCAW

Q.5(C): Calculate the gross turbine heat rate and Net turbine heat rate with the help of

parameters given below:	
Parameters	Value
Feed water Inlet temperature to Boiler	125*C
Feed water flow(without considering Make-up)	160TPH
Steam generation	160TPH
Steam pressure	100Kg/cm2
Steam temperature	515*C
Enthalpy of steam (at 100kg/cm2 & 515*C)	816kcal/kg
Generator capacity	40MW
Auxiliary Power Consumption at Full load	4MW

Q.5(D): Following parameters are noted from the ultimate analysis of coal sample:

_					
Carbon: 40%	Sulphur: 2%	Hydrogen: 4%			
Calculate the theoretical quant	tity of air required in kilograms.	If the boiler is operated at 4%			
excess oxygen, then calculate the actual air quantity in kilograms.					

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GUJARAT BOILER OPERATION ENGINEER EXAMINATION-2023 PAPER-2(BOILER ENGINEERING-2)

Time: 3.00 Hours Instructions:

SECTION-1 (MCQ)

1. Attempt all questions. Each question carries one mark.

2. Do not write or mark anything on the question paper.

3. Do not rewrite full question. Only write down question number and correct answer in the answer book.

Q.1: Answer all questions.

1. Hydra-Step is mounted on

E. Steam Drum	F. Re-heater	-	G. Super-heater	H. Water Drum	
2. Manholes of oval typ	be shall be arranged su	uch t	hat		
A. Major Axis to be	parallel with longitudi	nal c	centre line of boiler		
B. Minor axis to be	parallel with longitudi	nal c	centre line of boiler		
C. Centre of manho	le is offset to the long	itudi	inal centre line of boil	er	
D. Can be arranged	any way				
3. A Certified Boiler Op	peration Engineer is au	thor	ized to be in-charge o	f boilers of any type	
of size provided all the	boilers are situated				
A. Within a radius o	of 35 meters	_	B. Within a radius o	f 70 meters	
C. Within a radius of	of 50 meters		D. Within any radius	S	
4. Burner tilting is resc	orted to for the purpose	e of			
A. Varying furnace	pressure		B. Controlling re-heat	steam temperature	
C. Improving comb	oustion efficiency		D. None of the above		
5. Scale is forme <mark>d on</mark> h	eat transfer surface w	hen			
A. Water is acidic		(B. Water is alkaline		
C. Water contains of	dissolved Ca & Mg	10	D. Both (B) & (C)		
6. SOx emissions in FB	C boiler fired with coa	l are	controlled by adding	to the bed.	
A. Magnesia	B. Lime Stone		C. Sand	D. Silica	
7. Which NDT method is commonly use to check for inter surface defects when thickness is					
high?					
A. MPI (Magnetic Particle Testing)			B. PI (Penetrant Te	sting)	
C. UI (Ultrasonic Testing)			B: HICK lips longit	dinal repture	
8. Short-term overhea	ting usually exhibits		D. Severe pitting		
A. Thin lip longitud	inal rupture				
C. Transverse crac	KS				
9. The pressure at the	boiler furnaces is mini	mun	n in the case of		
A. FD System			B. ID System		
C. Balanced Draught System			D. Natural Draught System		
10. The vacuum obtair	hable in a condenser de	eper	nding upon		
A. Capacity of stea	m ejector		B. Quantity of stear	n to be handled	
C. Type of consenser used D. Temperature of cooling tower				cooling tower	
11. The steam space of	t boiler must be large	<u>eno</u>	ugn to		
A. Accommodate a	III the steam riser tube	S	B. Separate the w	ater from steam	
C. Accommodate steam separate			D. Keep steam pr	essure down	

Max. Marks: 100

[30x1=30 Marks]

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12. Heat balance in a boiler furnace is improved by sending air to the furnaces B. At high temperature A. At low temperature C. Mixed with CO2 D. Both (B) and (C) 13. An increase in bulk density of a refractory increases its A. Volume stability B. Heat capacity C. Resistance to slag penetration D. All of the above 14. The optimum percentage of excess air for combustion depends upon the.....of the fuel. A. Type (solid, liquid, gas) B. Calorific value C. Sulphur content D. Ignition temperature 15. High Sulphur content in a fuel.....of the flue gases? A. Decrease the dew point B. Reduces the combustion efficiency by limiting the permissible temperature reduction C. Increase the dew point D. Both (B) and (C) 16. The difference between mean solid velocity and gas velocity in FBC boiler is called B. Slip velocity C. Setting velocity A. Fluidization D. Bulk velocity 17. How boiler pressure controlled in FBC boilers? A. By switching ON/OFF Pulverisers B. By burner regulation C. By cut-in and cut-off of compartments D. By variation in air flow 18. What is the main issue observed during start-up of coal fired FBC boiler? A. Starvation B. Tube leakage C. Clinkerisation D. Overheating of tubes 19. Water at 4 Kg/cm2 pressure and 160*C temperature is exposed to atmosphere will A. Start boiling B. Flash and get converted into steam C. Will remain water only D. None of the above 20. The tube material used in cold end heating area of Air-preheater is B. Corten steel C. Alloy steel D. None of the above A. Low carbon steel 21. In modern ESP which electrode is not grounded? **B.** Collecting A. Emitting C. Both Emitting and Collecting D. None of the above 22. The maximum percentage allowed for acceleration of pressure in steam test at site is B. 10% C.15% A. 5% D. 17% 23. With increase in steam load, convection super-heater has A. Drooping characteristics **B.** Linear characteristics C. Rising characteristics D. Flat characteristics 24. Caustic embrittlement causes due to presence ofresidual in boiler water. B. NaOH C. MgCO3 A. NaCl D. KNO3 25. Which of the following increases, when high pressure steam is discharges to atmosphere? A. Specific volume B. Total enthalpy of steam C. Saturation temperature D. Sensible heat 26. Air venting in a steam system is required because air is C. Inert A. Diluents B. An insulator D. A good conductor 27. Which of the following salt causes temporary hardness in water? B. Calcium bicarbonate A. Calcium Sulphate C. Calcium chloride D. Calcium nitrate 28. Which one of the following is TRUE of a water softening process? A. It reduces hardness but not TDS B. It reduces both hardness and TDS C. It reduces TDS but not hardness D. One of the above

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29. Which type of firing is used for a pulverized coal fired boiler?

A. Over firing		B. Tangential firing		
C. Vertical firing		D. Mixed firing for effective heat transfer		
30. The elements of	ultimate analysis of fu	el does not include		
A. Carbon	B. Hydrogen	C. Oxygen	D. Volatile Matter	

SECTION-2 (Theory)

Instructions:

1. Attempt all questions.

2. Draw neat sketch whenever necessary.

3. Figures to the right indicate full marks.

Question No.1: Answer the following questions. (ANY TWO)

Q.1(a): In which cases must a boiler be shut down immediately?

Q.1(b): Describe details mentioned in Form-VI ((Certificate for use of a Boiler) (IBR-1950)).

Q.1(c): How many methods are there for the preservation of boiler? Explain in details.

Question-2: Answer the following questions. (ANY FOUR)

Q.2(a): What are basic conditions to fulfil proper deaeration system?

Q.2(b): What factors influence the combustion of coal particles in a fluidized bed?

Q.2(c): What factor leads to more intensive carry over?

Q.2(d): What are advantages of Air-heating in boiler?

0.2(e): What is difference between foaming and priming?

Q.3: Write short notes on the following. (ANY FOUR)

Q.3. Write short notes on the lot	towing. (ANT FOOK)	[Marks: 20(5x4)]
a) Soot Blowers	b) Economizers	c) Air-preheaters
d) Super-heaters	e) PRDS	

Q.4: Differentia <mark>te be</mark> tween:	[Marks: 10(2x5)]
a) Temporary and permanent hardness.	b) Sub-critical and Super-critical boiler.
c) Implosion and Explosion.	d) Degasser and Deaerator

e) Ultimate and Proximate Analysis

[Marks: 20(10x2)]

[Marks: 20(5x4)]

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GUJARAT BOILER OPERATION ENGINEER EXAMINATION-2023

PAPER-3(ENGINEERING DRAWING)

Time: 4.00 Hours Instructions:

SECTION-A (MCQ)

Max. Marks: 100

1. Attempt all the questions. Figure to right indicates full marks.

2. Do not write or marks= anything on the question paper.

3. Do not write full question. Only write down question no. and correct answer.

Q.1: Write the correct answer for the following from the given options.

1. The dashed line is used to show......edges in orthographic views.

[20x1=20]

A. Hidden	B. Visible		C. Phanto	om	D. Centre		
2. Inviews the internal construction of parts are cut and exposed for better							
understanding.							
A. Front	B. Auxiliary		C. Sectional		D. Isometric		
3. A ³ / ₄ the circle over a	nce ofin that geometry.						
A. Hole	B. Thread	ding	C. Chamf	er	D. Fillet		
4. In a drawing of bolt	with double st	art indicat	ting M24x1.5x	60, how r	nuch is the lead of the		
bolt?	bolt?						
A. 12	B. 0.75		C. 3.0		D. 1.5		
5. In bolt drawing indic	cating head dir	mension, A	\/F indicates		•••••		
A. Across Flat Dista	ance		B. Antilock Fastener				
C. After Finishing			D. Appro	ximate Fir	nishing		
6. In a drawing of a val	ve body indica	ating the M	1AWP valve in	dicating it	S		
A. Major Allowable	Working Press	sure	B. Minor Allowable Working Pressure				
C. Max. Allowable Working Pressure			D. Min. A	llowable V	Vorking Pressure		
7. The drawing showin	g 150# mark (on the flar	ige details ind	icates its.			
A. Fillet Size	B. Surface		C. Pressur	e	D. Temperature		
	Finish		Class	SI C	Class		
8. Which weld geometry is used to weld longitudinal seam of 20mm thick boiler plates?							
A. Fillet weld			B. Single	V butt j	oint		
C. Double V butt join			D. Single	U butt joi	nt		
9. Which of the parame	eters is not rec	quired for	hemispherical	dished er	nd?		
A. Knuckle Radius			B. Straight Face				
C. Crown Radius			D. Thickness				
10. The eccentricity(ε) of an ellipse is		C. ε=1					
Α. ε>1	Β. ε<1				D. ε=0		
11. The actual length of a line is 100mm. What will the approximate length of the line for							
isometric projection?							
A. 81.5mm B. 75.5mm		m	C. 101.5mm		D. 105.5mm		
12. Which of the following is not a reducing sca		ale? C. 5:320 D. 5:6		D. 5:6			
A. 1:1	B. 1:200						
13. What is the ratio of length of the arrow head to the depth of the arrow head for the							
dimension line?							
A. 3:1 B.	. 1:3	C. 1:1	L	D. None of the abov			
14. When the cone is resting on its base on VP, is cut by a section plane parallel to VP, the							
true shape isand can be seen inview.							
A. Ellipse, Front			B. Circle, Top				

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C. Ellipse, Top		D. Circle, Front				
15. The length in the is	ometric projection drav	/ing of line is 20cm. What is the true length of				
it?						
A. 24.53cm	B. 15.46cm	C. 19.31cm D. 23.09cm				
16. Which type of line is drawn as long dashed dotted thin, thick at ends and changes of						
directions?						
A. Visible edges		B. Cutting planes				
C. Hidden outlines		D. Dimension lines				
17. The height of hexag	gonal nut is	C. 1.3D				
A. 0.5D	B. 1.1D	D. 0.9D				
18. For screw thread designation M10x1.25 in which 10 and 1.25 indicate						
respectively.						
A. Core Diameter a	nd Pitch	B. Nominal Diameter and Pitch				
C. Bolt Length and	Depth of Thread	D. Thread Length and Pitch				
19. The angle of the ISO Metric "V" thread is						
A. 60*	B. 55*	C. 47.5*	D. 50.5*			
20. A circle which appear on an Isometric drawing as D. Parabola						
A. Cycloid	B. Ellipse	C. Circle				

SECTION-B (Drawing)

Instructions:

1. Attempt all questions. Figure to right indicates full marks.

2. Do not write or mark anything on the question paper.

Dimensions are in mm otherwise specify, if required.
Make suitable assumptions, if required and justify.

5. Draw as per the scale mentioned in the questions.

6. Dimensional methods/detail for drawings will be given proportional weigtage in the marks. Q.2(a): Draw the only Two orthographic views of the gland collar with respect to X and

Y directions as shown in Fig-1 using Third Angle projections Method. Take Scale of

1:1.



[20]

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OR Q.2(a): Draw the only Two orthographic views of the coupling part with respect to X and Y directions as shown in Figure-2 First Angle projections Method. Take scale of 1:1. [20]



Q.2(b): Darw the Isometric view of the Condensate water tank from the orthographic views (as per given symbol) shown in Fig-3. Take scale of 1:10. Neglect the thickness.



N.B.:- All dimensions are in mm

Q.3: Draw ANY TWO of the following using scale of 1:1.

[10x2=20]

Q.3(a): Draw equal Mild Steel Cross fitting for following given dimensions. ID for all four outlets=100, Wall thickness=8, Minimum length from centre line to end face=115. All four ends are bevelled for welding purpose.

Q.3(b): Draw unequal Mild Steel Tee fitting=80x80x40 with reducing size as top branch for following given dimensions.

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ID of branches are 80,80 and 40. Wall thickness=9. Length of the branches from centre line to end face for size 80 is 70 and for size 40 is 90. All three ends are bevelled foe welding purpose.

Q.3(c): Draw hemispherical end cap for Mild Steel pipe for following given dimensions. Pipe size (ID)=150, Wall thickness=10 and Straight Face of 25. End is bevelled foe welding purpose.

Q.4: Draw any TWO sketches of the following with proportional dimensions. [10x2=20]

Q.4(a): The Eye (Hoop) bolt of size 75 diameter with Nut and Washer for foundation of chimney.

Q.4(b): Draw sectional view of Y-Strainer for pipe line of 50 diameter.

Q.4(c): Ω -shape expansion loop for steam pipe of 100 diameter with vent valve.

Book No.	Name of the Book	Edition	Type of Book	Language	Nos. of Pages	Author's Name
1	Indian BOE Exam Guide Book (As per BOE Syllabus)	6th	Spiral winded	English	234	Mithilesh Singh
2	All India BOE Exam Solved Papers Part-1 (2010-2016) 21-Sets	1st	Colour printed	English	392	Mithilesh Singh
3	All India BOE Exam Solved Papers Part-2 (2017-2022) 24-Sets	1st	Colour printed	English	500	Mithilesh Singh
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